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Annual Index — 2000

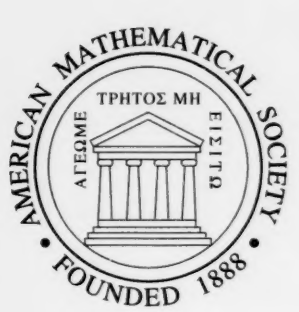
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00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86.}

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00A71 Theory of mathematical modeling

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00A72 General methods of simulation

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00A73 Dimensional analysis

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00A79 Physics (use more specific entries from Sections 70 through 86 when possible)

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00Bxx Conference proceedings and collections of papers

00B05 Collections of abstracts of lectures

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00B10 Collections of articles of general interest

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00B15 Collections of articles of miscellaneous specific content

(Ablowitz, Mark J.) *see* **Applications of solitons and symmetries, 2000b:00004**
(Agarwal, Ravi P.) *see* **Fixed point theory with applications in nonlinear analysis, 2000j:00012**
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(Ceccherini, P. V.) *see* **Combinatorics, 2000g:00028**
(Clarkson, Kenneth L.) *see* **ACM Symposium: Computational Geometry, 2000g:00027**
(Clarkson, Peter A.) *see* **Applications of solitons and symmetries, 2000b:00004**
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(Elizarov, A. M.) *see* **Proceedings: Lobachevskiĭ Mathematical Center, 2000k:00022** *and* **2000k:00023**
(El Naschie, M. S.) *see* **Impact of nonlinear dynamics and fractals on quantum physics and relativity, 2000b:00006**
(Eugine, F.) *see* **Combinatorics, 2000g:00028**
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(Feigin, B. L.) *see* **Topics in quantum groups and finite-type invariants, 2000j:00013**
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Canberra ★ Geometric approaches to differential equations. **2000m:00019**
Chance as necessity ★ Chance as necessity. **2000k:00021**
Combinatorics ★ Combinatorics. **2000g:00028**
Complex analysis and differential equations ★ Комплексный анализ и дифференциальные уравнения. (Russian) [Complex analysis and differential equations] **2000g:00029**
Conference:
Combinatorics 96 ★ Combinatorics. **2000g:00028**
Conjugate equations and perturbation algorithms in problems of mathematical physics ★ Сопряженные уравнения и алгоритмы возмущений в задачах математической физики. (Russian) [Conjugate equations and perturbation algorithms in problems of mathematical physics] **2000c:00022**
Evolution equations, Feshbach resonances, singular Hodge theory ★ Evolution equations, Feshbach resonances, singular Hodge theory. **2000c:00023**
Evolution of spontaneous structures in dissipative continuous systems ★ Evolution of spontaneous structures in dissipative continuous systems. **2000g:00030**
External problems of the theory of functions ★ Экстремальные задачи теории функций. 7. (Russian) [External problems of the theory of functions. 7] **2000a:00011**
Fixed point theory with applications in nonlinear analysis ★ Fixed point theory with applications in nonlinear analysis. **2000j:00012**
Fundamental and applied mathematics ★ Фундаментальная и прикладная математика. (Russian) [Fundamental and applied mathematics] **2000m:00018**
Geometric approaches to differential equations ★ Geometric approaches to differential equations. **2000m:00019**
Geometry of differential equations ★ Geometry of differential equations. **2000g:00031**
Higher transcendental functions and their applications ★ Higher transcendental functions and their applications. **2000m:00020**
History of topology ★ History of topology. **2000g:00032**
Impact of nonlinear dynamics and fractals on quantum physics and relativity ★ The impact of nonlinear dynamics and fractals on quantum physics and relativity. **2000b:00006**
Inscribing science ★ Inscribing science. **2000g:00033**
Investigations in complex analysis ★ Исследования по комплексному анализу. (Russian) [Investigations in complex analysis] **2000i:00022**
Investigations in functional analysis and topology ★ Исследования по функциональному анализу и топологии. (Russian) [Investigations in functional analysis and topology] **2000g:00034**
Kazan' ★ Труды Математического Центра имени Н. И. Лобачевского. Том 2. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 2] **2000k:00022**
— ★ Труды Математического Центра имени Н. И. Лобачевского. Том 3. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 3] **2000k:00023**
Lecture Notes in Physics. New Series m: Monographs ★ Evolution of spontaneous structures in dissipative continuous systems. **2000g:00030**
Methods for solving conditionally well-posed problems ★ Методы решения условно-корректных задач. (Russian) [Methods for solving conditionally well-posed problems] **2000b:00007**
Minneapolis, MN ★ 14th Annual ACM Symposium on Computational Geometry. **2000g:00027**
Mystery of nonlinearity and Lorenz's chaos ★ Mystery of nonlinearity and Lorenz's chaos. **2000g:00035**
Nonlinear analysis and applications ★ Нелинейный анализ и приложения. (Russian) [Nonlinear analysis and applications] **2000e:00016**
Notes of mathematics, history, culture ★ Note di matematica, storia, cultura. (Italian) [Notes of mathematics, history, culture] **2000g:00036**
Peaking regimes. Evolution of the idea ★ Режимы с обострением. Эволюция идеи. (Russian) [Peaking regimes. Evolution of the idea] **2000g:00037**
Problems in group theory and homological algebra ★ Вопросы теории групп и гомологической алгебры. (Russian) [Problems in group theory and homological algebra] **2000m:00021a**
— ★ Вопросы теории групп и гомологической алгебры. (Russian) [Problems in group theory and homological algebra] **2000m:00021b**
— ★ Вопросы теории групп и гомологической алгебры. (Russian) [Problems in group theory and homological algebra] **2000g:00038**
Proceedings:
Lobachevskiĭ Mathematical Center ★ Труды Математического Центра имени Н. И. Лобачевского. Том 2. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 2] **2000k:00022**
— ★ Труды Математического Центра имени Н. И. Лобачевского. Том 3. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 3] **2000k:00023**
Publications du Centre de Recherches en Mathématiques Pures. Sér. I ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. I. Fasc. 29. (French) [Publications of the Center for Research in Pure Mathematics. Ser. I. No. 29] **2000c:00026**
— ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. I. Fasc. 30. (French) [Publications of the Center for Research in Pure Mathematics. Ser. I. No. 30] **2000c:00027**
Publications du Centre de Recherches en Mathématiques Pures. Sér. II ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. II. Tome 16. (French) [Publications of the Center for Research in Pure Mathematics. Ser. II. Vol. 16] **2000c:00024**
— ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. II. Tome 17. (French) [Publications of the Center for Research in Pure Mathematics. Ser. II. Vol. 17] **2000c:00025**
Publications of the Center for Research in Pure Mathematics. Ser. I ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. I. Fasc. 29. (French) [Publications of the Center for Research in Pure Mathematics. Ser. I. No. 29] **2000c:00026**
— ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. I. Fasc. 30. (French) [Publications of the Center for Research in Pure Mathematics. Ser. I. No. 30] **2000c:00027**
Publications of the Center for Research in Pure Mathematics. Ser. II ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. II. Tome 16 (French) [Publications of the Center for Research in Pure Mathematics. Ser. II. Vol. 16] **2000c:00024**
— ★ Publications du Centre de Recherches en Mathématiques Pures. Sér. II. Tome 17. (French) [Publications of the Center for Research in Pure Mathematics. Ser. II. Vol. 17] **2000c:00025**
School-Conference:
Boundary Value Problems and their Applications ★ Труды Математического Центра имени Н. И. Лобачевского. Том 3. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 3] **2000k:00023**
Iterative Methods for Solving Linear and Nonlinear Difference Equations ★ Труды Математического Центра имени Н. И. Лобачевского. Том 2. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 2] **2000k:00022**
Science into the next millennium: young scientists give their visions of the future ★ Science into the next millennium: young scientists give their visions of the future. Part I. **2000m:00022**
— ★ Science into the next millennium: young scientists give their visions of the future. Part II. **2000m:00023**
Seminar:
Spectral Theory and Geometry ★ Séminaire de Théorie Spectrale et Géométrie. No. 8. Année 1989–1990. (French) [Seminar on Spectral Theory and Geometry. No. 8.Year 1989–1990] **2000f:00013**
Some problems in contemporary mathematics ★ Некоторые вопросы современной математики. (Russian) [Some problems in contemporary mathematics] **2000k:00024**
Special Issue:
Chance as necessity ★ Chance as necessity. **2000k:00021**
Fixed point theory with applications in nonlinear analysis ★ Fixed point theory with applications in nonlinear analysis. **2000j:00012**
Higher transcendental functions and their applications ★ Higher transcendental functions and their applications. **2000m:00020**
Impact of nonlinear dynamics and fractals on quantum physics and relativity ★ The impact of nonlinear dynamics and fractals on quantum physics and relativity. **2000b:00006**
Mystery of nonlinearity and Lorenz's chaos ★ Mystery of nonlinearity and Lorenz's chaos. **2000g:00035**
Studies in mathematical analysis and Riemannian geometry ★ Исследования по математическому анализу и римановой геометрии. (Russian) [Studies in mathematical analysis and Riemannian geometry] **2000m:00024**
Topics in quantum groups and finite-type invariants ★ Topics in quantum groups and finite-type invariants. **2000j:00013**

Items with secondary classifications in 00B15

(Arnol'd, Vladimir Igorevich) *see* **Mathematics: frontiers and perspectives, 2000m:00017**
(Atiyah, Michael) *see* **Mathematics: frontiers and perspectives, 2000m:00017**
(van den Berg, J. C.) *see* **Wavelets in physics, 2000g:00007**
(Chen, Guanrong) *see* **Controlling chaos and bifurcations in engineering systems, 2000m:93010**
(Datta, Biswa Nath) *see* **Applied and computational control, signals, and circuits, 2000b:93003**
Fraser, Craig G. ★ Calculus and analytical mechanics in the Age of Enlightenment. **2000m:01021**
(Gel'fand, Izrail' Moiseevich) *see* **Seminar: Gelfand Mathematical, 2000h:00016**
(Lax, Peter D.) *see* **Mathematics: frontiers and perspectives, 2000m:00017**
(Mazur, Barry C.) *see* **Mathematics: frontiers and perspectives, 2000m:00017**
(Retakh, Vladimir) *see* **Seminar: Gelfand Mathematical, 2000h:00016**
(Sah, Chih-Han) *see* **Seminar: Gelfand Mathematical, 2000h:00016**
(Serfati, Michel) *see* **Search for truth, 2000m:01002**

Items listed otherwise than by author

Applied and computational control, signals, and circuits ★ Applied and computational control, signals, and circuits. Vol. 1. **2000b:93003**
Controlling chaos and bifurcations in engineering systems ★ Controlling chaos and bifurcations in engineering systems. **2000m:93010**
Mathematics: frontiers and perspectives ★ Mathematics: frontiers and perspectives. **2000m:00017**
Memorial Volume:
Sah, Chih-Han ★ The Gelfand Mathematical Seminars, 1996–1999. **2000h:00016**

Recherche de la vérité ★ La recherche de la vérité. (French) [The search for truth] **2000m:01002**
Search for truth ★ La recherche de la vérité. (French) [The search for truth] **2000m:01002**
Seminar:
Gelfand Mathematical ★ The Gelfand Mathematical Seminars, 1996–1999. **2000h:00016**
Wavelets in physics ★ Wavelets in physics. **2000g:00007**

00B20 Proceedings of conferences of general interest

(Dekking, F. Michel) *see* **Fractals: theory and applications in engineering, 2000g:00039**
(Emmer, Michele) *see* **Mathematics and culture, 2000j:00014**
(Lévy Véhel, Jacques) *see* **Fractals: theory and applications in engineering, 2000g:00039**
(Lutton, Evelyne) *see* **Fractals: theory and applications in engineering, 2000g:00039**
(Terng, Chuu Lian) *see* **Surveys in differential geometry: integral systems, 2000g:00041**
(Tricot, Claude) *see* **Fractals: theory and applications in engineering, 2000g:00039**
(Uhlenbeck, Karen) *see* **Surveys in differential geometry: integral systems, 2000g:00041**

Items listed otherwise than by author

Conference:
Mathematics and Culture ★ Matematica e cultura. (Italian) [Mathematics and culture] **2000j:00014**
Fractals: theory and applications in engineering ★ Fractals: theory and applications in engineering. **2000g:00039**
Mathematics and culture ★ Matematica e cultura. (Italian) [Mathematics and culture] **2000j:00014**
Summer course 1999: unproven conjectures ★ Vakantiecursus 1999: onbewezen vermoedens. (Dutch) [Summer course 1999: unproven conjectures] **2000g:00040**
Surveys in differential geometry: integral systems ★ Surveys in differential geometry: integral systems [integrable systems]. **2000g:00041**
Venice ★ Matematica e cultura. (Italian) [Mathematics and culture] **2000j:00014**

Items with secondary classifications in 00B20

(Leondes, Cornelius T.) *see* **Structural dynamic systems computational techniques and optimization, 2000k:74003**

Items listed otherwise than by author

Structural dynamic systems computational techniques and optimization ★ Structural dynamic systems computational techniques and optimization. **2000k:74003**

00B25 Proceedings of conferences of miscellaneous specific interest

(Abad, Manuel) *see* **Proceedings: Congress on Mathematics, 2000m:00034**
(Aganović, Ibrahim) *see* **Conference: Operational Research, 2000c:00030**
(Albis González, Víctor Samuel) *see* **Proceedings: Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes, 2000g:00068**
(Alekseev, A. S.) *see* **Advanced mathematics: computations and applications, 2000c:00028**
(Alexiades, Vasilios) *see* **Trends in mathematical physics, 2000c:00041**
(Al-Musallam, Fadhel) *see* **Proceedings: Conference on Fourier Analysis and Applications, 2000m:00033**
(Álvarez Díaz, Lilliam) *see* **Symposium: Mathematics, 2000d:00017**
(Alvarez-Nodarse, Renato) *see* **Orthogonal polynomials: numerical and symbolic algorithms, 2000k:00042**
(Antoniou, Ioannis E.) *see* **Integrability and chaos in discrete systems, 2000g:00060**
(Arkeryd, Leif) *see* **Progress in industrial mathematics at ECMI 98, 2000h:00012**
(Athanasopoulos, I.) *see* **Free boundary problems: theory and applications, 2000c:00033**
(Aulaskari, Rauno) *see* **Function spaces and complex analysis, Joensuu 1997, 2000d:00011**
(Awrejcewicz, J.) *see* **Nonlinearity, bifurcation and chaos: the doors to the future, 2000c:00034** *and* **Nonlinearity, bifurcation, and chaos: the doors to the future, 2000c:00035**
(Bajaj, Anil K.) *see* **Nonlinearity, bifurcation and chaos: the doors to the future, 2000c:00034** *and* **Nonlinearity, bifurcation, and chaos: the doors to the future, 2000c:00035**
(Bakhvalov, Nikolaĭ Sergeevich) *see* **Advanced mathematics: computations and applications, 2000c:00028**
(Bálint, Vojtech) *see* **Proceedings: Conference on Mathematics, 2000j:00022**
(Begehr, Heinrich G. W.) *see* **Complex methods for partial differential equations, 2000k:00030**
(Belonosov, S. M.) *see* **Integral equations and boundary value problems in mathematical physics, 2000k:00037**
(Bergh, Jöran) *see* **Progress in industrial mathematics at ECMI 98, 2000h:00012**
(Bertram, B. S.) *see* **Integral methods in science and engineering, 2000k:00038**
Bethuel, Fabrice (*with* Huisken, Gerhard; Müller, Stefan C.; Steffen, Klaus) ★ Calculus of variations and geometric evolution problems. **2000g:00042**
(Bobenko, A. I.) *see* **Discrete integrable geometry and physics, 2000g:00055**
(Bock, Hans Georg) *see* **ENUMATH 97, 2000c:00032**
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(Bott, Raoul) *see* **Current developments in mathematics, 2000b:00010** *and* **2000g:00054**
(Böttcher, Albrecht) *see* **Proceedings: Conference on Fourier Analysis and Applications, 2000m:00033**
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(Bouquet, S. E.) *see* **Dynamical systems, plasmas and gravitation, 2000g:00056**
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(Brandstädt, Andreas) *see* **Proceedings: Conference on Optimal Discrete Structures and Algorithms, 2000c:00037**
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(Bray, William O.) *see* **Analysis of divergence, 2000j:00016**
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(Chern, Shiing Shen) *see* **Symposium: Chern, Shiing Shen, 2000h:00014**
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(Fradera, Isabel) *see* **Workshop: Generalized Convexity and Monotonicity in Economic Modeling, 2000m:00042**
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(Kolesárová, Anna) *see* Fuzzy sets, 2000g:00057a *and* 2000g:00057b
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Aachen ★ Charlemagne and his heritage. 1200 years of civilization and science in Europe. Vol. 1. (German) **2000j:00017**
Advanced mathematics: computations and applications ★ Advanced mathematics: computations and applications. **2000c:00028**
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  Integral Equations and Boundary Value Problems in Mathematical Physics ★ Интегральные уравнения и краевые задачи математической физики. Часть 1, 2. (Russian) [Integral equations and boundary value problems in mathematical physics. Part 1, 2] **2000k:00037**
American Mathematical Society Translations, Series 2 ★ Moscow Seminar in Mathematical Physics. **2000g:00073**
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Aspects of complex analysis, differential geometry, mathematical physics and applications ★ Aspects of complex analysis, differential geometry, mathematical physics and applications. **2000g:00045**
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Bogotá ★ Memorias del Seminario en Conmemoración de los 400 Años del Nacimiento de René Descartes. (Spanish) [Proceedings of the Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes] **2000g:00068**
Brasov ★ Proceedings of the 13th Scientific Session on Mathematics and its Applications. **2000m:00035**
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Cambridge, MA ★ Current developments in mathematics, 1996. **2000g:00054**
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Canela ★ XV Escola de Álgebra. [15th School of Algebra] **2000m:00038**
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Charlemagne and his heritage. 1200 years of civilization and science in Europe ★ Charlemagne and his heritage. 1200 years of civilization and science in Europe. Vol. 1. (German) **2000j:00017**
Chemnitz ★ Optimal control of partial differential equations. **2000g:00064**
Coimbra ★ Actas do 1º Seminário em Matemática em Telecomunicações. (Portuguese) [Proceedings of the 1st Seminar on Mathematics and Telecommunications] **2000j:00024**
Colloquium:
  Analysis on Infinite-Dimensional Lie Groups and Algebras ★ Analysis on infinite-dimensional Lie groups and algebras.
  Carolus Magnus: 1200 Years of Civilization and Science in Europe ★ Charlemagne and his heritage. 1200 years of civilization and science in Europe. Vol. 1. (German) **2000j:00017**
  Lie Groups and Ergodic Theory ★ Lie groups and ergodic theory. **2000b:00011**
  Operator Algebras and Quantum Groups ★ Coloquio de Álgebras de Operadores y Grupos Cuánticos. [Colloquium on Operator Algebras and Quantum Groups] **2000e:00017**
  Philosophy ★ Reduction and emergence. **2000h:00013**
  Progress in Mathematics on the Eve of the Year 2000 ★ Travaux mathématiques. Fasc. XI. (French) [Mathematical works. Part XI] **2000k:00039**
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Applied Computer Algebra ★ Non-standard applications of computer algebra. II. **2000k:00040**
Appli l Mathematics ★ Proceedings of the 15th Annual Conference of Applied Mathematics. **2000k:00043**
Approximation Theory and Harmonic Analysis ★ Труды Международной Конференции "Теория Приближений и Гармонический Анализ". (Russian) [Proceedings of the International Conference "Approximation Theory and Harmonic Analysis"] **2000m:00032**
Center for Nonlinear Studies ★ Predictability: quantifying uncertainty in models of complex phenomena. **2000g:00066**
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Condensed Matter Physics and Discrete Geometry ★ Discrete integrable geometry and physics. **2000g:00055**
Control and its Applications ★ Control of partial differential equations. **2000j:00021**
Current Developments in Mathematics ★ Current developments in mathematics, 1997. **2000b:00010**
Differential Equations and Mathematical Physics ★ Differential equations and mathematical physics. **2000m:00026**
Dimension and Dynamics ★ International Conference on Dimension and Dynamics. **2000g:00048**
Dynamical Systems and Differential Equations ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
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Dynamical Systems, Plasmas and Gravitation ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
Dynamics Days ★ {UK Dynamics Days Conference}. **2000g:00049**
Fourier Analysis and Applications ★ Proceedings of the International Conference on Fourier Analysis and Applications. **2000m:00033**
Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **2000k:00033**
Fuzzy Sets Theory and its Applications ★ Fuzzy sets. Part I. **2000g:00057a**
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Integral Methods in Science and Engineering ★ Integral methods in science and engineering. **2000k:00038**
Jordan Structures ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
Lectures on Mathematics ★ II Lecciones de Matemáticas. (Spanish) [II Lectures on Mathematics]
Mathematical Education ★ Forms of mathematical knowledge. **2000k:00032**
Mathematical Problems in Ecology ★ Математические проблемы экологии. (Russian) [Mathematical problems in ecology] **2000a:00021**
Mathematics ★ International Scientific Conference on Mathematics. Proceedings. **2000j:00022**
— ★ Primera Trobada Matemàtica. (Catalan) [First Conference on Mathematics] **2000g:00050**
Mathematics in Industry ★ Progress in industrial mathematics at ECMI 98. **2000h:00012**
Nonlinear Analysis and Convex Analysis ★ Nonlinear analysis and convex analysis. **2000k:00041**
Nonlinear Evolution Equations and their Applications ★ Hisenkei hatten hōteishiki to sono ōyō. [Nonlinear evolution equations and their applications] **2000a:00023**
Nonlinearity, Bifurcation and Chaos: the Doors to the Future ★ Nonlinearity, bifurcation and chaos: the doors to the future. Part I. **2000c:00034**
— ★ Nonlinearity, bifurcation and chaos: the doors to the future. Part II. **2000c:00035**
Numerical Mathematics and Advanced Applications ★ ENUMATH 97. **2000c:00032**
Numerical Mathematics and Computational Mechanics ★ 7th International Conference on Numerical Mathematics and Computational Mechanics. **2000j:00019**
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Operational Research ★ {7th International Conference on Operational Research}. **2000c:00030**
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Optimal Control of Partial Differential Equations ★ Optimal control of partial differential equations. **2000g:00064**
Optimal Discrete Structures and Algorithms ★ Proceedings of the Conference on Optimal Discrete Structures and Algorithms—ODSA '97. **2000c:00037**
Partial Differential Equations—Theory and Numerical Solutions ★ Partial differential equations. **2000e:00026**
Philosophy of Mathematics Today ★ The philosophy of mathematics today. **2000c:00036**
Predictability: Quantifying Uncertainty in Models of Complex Phenomena ★ Predictability: quantifying uncertainty in models of complex phenomena. **2000g:00066**
Spectral Problems in Geometry and Arithmetic ★ Spectral problems in geometry and arithmetic. **2000d:00016**
Spectral Theory and Geometry ★ Rencontres de Théorie Spectrale et Géométrie. (French) [Conference on Spectral Theory and Geometry] **2000g:00051**
Technology, Mathematics ★ Proceedings of the Third Asian Technology Conference in Mathematics. **2000d:00014**
The Future of Discrete Mathematics ★ Contemporary trends in discrete mathematics. **2000d:00009**
Topology and its Applications ★ II Iberoamerican Conference on Topology and its Applications. **2000e:00019**
Trends in Mathematical Physics ★ Trends in mathematical physics. **2000c:00041**
Tricomi's Ideas and Contemporary Applied Mathematics ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Congress:
Algebras and Combinatorics ★ Algebras and combinatorics. **2000j:00015**
Computational and Applied Mathematics ★ Proceedings of the 8th International Congress on Computational and Applied Mathematics, ICCAM-98. **2000k:00045**
Computational Mechanics ★ Fourth World Congress on Computational Mechanics. **2000g:00052**
— ★ Fourth World Congress on Computational Mechanics. **2000g:00053**
Free Boundary Problems: Theory and Applications ★ Free boundary problems: theory and applications. **2000c:00033**
Fuzzy Logic and Technology ★ 6th and 7th Spanish Congress on Fuzzy Logic and Technology. **2000c:00031**
Fuzzy System Association ★ Fuzzy analysis and related topics. **2000a:00016**
Geometry ★ Complex geometry of groups. **2000g:00046**
Mathematical Physics ★ XIIth International Congress of Mathematical Physics (ICMP '97). **2000b:00009**
Mathematicians and Computer Scientists of Macedonia ★ Прв Конгрес на Математичарите и Информатичарите на Македонија. (Macedonian) [1st Congress of the Mathematicians and Computer Scientists of Macedonia] **2000j:00020**
Mathematics ★ Actas V Congreso de Matemática "Dr. Antonio A. R. Monteiro". [Proceedings of the Fifth "Dr. Antonio A. R. Monteiro" Congress on Mathematics] **2000m:00034**
Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 8. **2000g:00067**
Contemporary Mathematics ★ Spectral problems in geometry and arithmetic. **2000d:00016**
— ★ Complex geometry of groups. **2000g:00046**
— ★ African Americans in mathematics. II. **2000k:00026**
Contemporary trends in discrete mathematics ★ Contemporary trends in discrete mathematics. **2000d:00009**
Contributions to general algebra ★ Contributions to general algebra. 11. **2000a:00015**
Control of partial differential equations ★ Control of partial differential equations. **2000j:00021**
Crete ★ Free boundary problems: theory and applications. **2000c:00033**
Cuernavaca ★ Complex analysis and related topics. **2000k:00029**
Current developments in mathematics ★ Current developments in mathematics, 1996. **2000g:00054**
— ★ Current developments in mathematics, 1997. **2000b:00010**
Development of infinite-dimensional non-commutative analysis ★ Development of infinite-dimensional non-commutative analysis. **2000k:00031**
Differential equations and mathematical physics ★ Differential equations and mathematical physics. **2000m:00026**
Discrete integrable geometry and physics ★ Discrete integrable geometry and physics. **2000g:00055**
Dobieszków ★ Nonlinearity, bifurcation and chaos: the doors to the future. Part I. **2000c:00034**
— ★ Nonlinearity, bifurcation and chaos: the doors to the future. Part II. **2000c:00035**
Dortmund ★ Computational intelligence. **2000e:00018**
Dynamic organization of fluctuations ★ Dynamic organization of fluctuations. **2000m:00027**
Dynamical systems and differential equations ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
— ★ Dynamical systems and differential equations. Vol. II. **2000e:00021**
Dynamical systems and differential geometry ★ Rikigakkei to bibun kikagaku. (Japanese) [Dynamical systems and differential geometry] **2000d:00010**
— ★ Rigakukei to bibun kikagaku. (Japanese) [Dynamical systems and differential geometry] **2000m:00028**
Dynamical systems, plasmas and gravitation ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
Edinburgh ★ {UK Dynamics Days Conference}. **2000g:00049**
Edmond, OK ★ Proceedings of the 15th Annual Conference of Applied Mathematics. **2000k:00043**
ENUMATH 97 ★ ENUMATH 97. **2000c:00032**
Festschrift:
Bruckner, Andrew M. Report on the Summer Symposium in Real Analysis XXII.

Festschrift: (*cont'd.*) **2000b:00015**
Chern, Shiing Shen ★ The Chern Symposium. 1998. **2000h:00014**
Stanojević, Časlav V. ★ Analysis of divergence. **2000j:00016**
Thirring, Walter E. ★ International Symposium on Mathematical and Theoretical Physics. **2000c:00039**
Forms of mathematical knowledge ★ Forms of mathematical knowledge. **2000k:00032**
Fourier series: theory and applications ★ Ряди Фур'є: теорія і застосування. (Russian) [Fourier series: theory and applications] **2000m:00029**
Free boundary problems: theory and applications ★ Free boundary problems: theory and applications. **2000c:00033**
Freiburg/Littenweiler ★ An introduction to recent developments in theory and numerics for conservation laws. **2000g:00061**
Function spaces and complex analysis, Joensuu 1997 ★ Function spaces and complex analysis, Joensuu 1997. **2000d:00011**
Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **2000k:00033**
Fundamental open problems in science at the end of the millennium ★ Fundamental open problems in science at the end of the millennium. Vol. I–III. **2000k:00034**
Fuzzy analysis and related topics ★ Fuzzy analysis and related topics. **2000a:00016**
Fuzzy modeling and dynamics ★ Fuzzy modeling and dynamics. **2000a:00017**
Fuzzy sets ★ Fuzzy sets. Part I. **2000g:00057a**
— ★ Fuzzy sets. Part II. **2000g:00057b**
Fuzzy Theorie und Stochastik ★ Fuzzy Theorie und Stochastik. (German) [Fuzzy theory and stochastics] **2000g:00058**
Fuzzy theory and stochastics ★ Fuzzy Theorie und Stochastik. (German) [Fuzzy theory and stochastics] **2000g:00058**
Geometric analysis and Lie theory in mathematics and physics ★ Geometric analysis and Lie theory in mathematics and physics. **2000a:00018**
Geometrical aspects of nonlinear differential equations ★ Geometrical aspects of nonlinear differential equations. **2000d:00012**
Geometry, integrability and quantization ★ Geometry, integrability and quantization. **2000m:00030**
Gijón ★ 6th and 7th Spanish Congress on Fuzzy Logic and Technology. **2000c:00031**
Gothenburg ★ Progress in industrial mathematics at ECMI 98. **2000h:00012**
Grado ★ Workshop di Teoria della Misura e Analisi Reale. [Workshop on Measure Theory and Real Analysis] **2000a:00026**
Granada ★ Proceedings of the Europhysics Conference on Computational Physics. **2000j:00023**
Harmonic analysis and nonlinear partial differential equations ★ Chōwa kaisekigaku to hisenkei hembibun hōteishiki. (Japanese) [Harmonic analysis and nonlinear partial differential equations] **2000a:00019**
— ★ Harmonic analysis and nonlinear partial differential equations. **2000k:00035**
Havana ★ IV Simposio de Matemática. (Spanish) [IVth Symposium of Mathematics] **2000d:00017**
Heidelberg ★ ENUMATH 97. **2000c:00032**
Hodůnka ★ Summer School DATASTAT 97. Proceedings. **2000e:00027**
Hong Kong ★ Algebras and combinatorics. **2000j:00015**
Houghton, MI ★ Integral methods in science and engineering. **2000k:00038**
Houston, TX ★ African Americans in mathematics. II. **2000k:00026**
Hyperbolic problems: theory, numerics, applications ★ Hyperbolic problems: theory, numerics, applications. Vol. I. **2000e:00022**
— ★ Hyperbolic problems: theory, numerics, applications. Vol. II. **2000e:00023**
Hyperbolic spaces and related topics ★ Hyperbolic spaces and related topics. (Japanese) **2000k:00036**
Ilomantsi ★ Function spaces and complex analysis, Joensuu 1997. **2000d:00011**
Information technology ★ Information technology. **2000g:00059**
Integrability and chaos in discrete systems ★ Integrability and chaos in discrete systems. **2000g:00060**
Integral equations and boundary value problems in mathematical physics ★ Интегральные уравнения и краевые задачи математической физики. Часть 1, 2. (Russian) [Integral equations and boundary value problems in mathematical physics. Part 1, 2] **2000k:00037**
Integral methods in science and engineering ★ Integral methods in science and engineering. **2000k:00038**
Introduction to recent developments in theory and numerics for conservation laws ★ An introduction to recent developments in theory and numerics for conservation laws. **2000g:00061**
Invariants of dynamical systems and their applications ★ Rikigakkei no fuhenryō to sono ōyō. [Invariants of dynamical systems and their applications] **2000e:00024**
Iowa City, IA ★ Spectral problems in geometry and arithmetic. **2000d:00016**
IUTAM Symposium:
Three-dimensional Aspects of Air-Sea Interaction ★ Three-dimensional aspects of air-sea interaction. **2000b:00016**
Jacksonville, FL ★ Control of partial differential equations. **2000j:00021**
Jacobian conjecture and dynamical systems ★ Jacobian conjecture and dynamical systems. **2000a:00020**
Kamenets-Podol'skiĭ ★ Ряди Фур'є: теорія і застосування. (Russian) [Fourier series: theory and applications] **2000m:00029**
Kansas City, MO ★ PSA 1998. Part I. **2000g:00065**
Kazan ★ {Towards 100 years after Sophus Lie}. **2000j:00027**
— ★ {Towards 100 years after Sophus Lie}. **2000j:00028**
— ★ Труды Математического Центра имени Н. И. Лобачевского. Том 4. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 4]
Knoxville, TN ★ Trends in mathematical physics. **2000c:00041**
Kuwait ★ Proceedings of the International Conference on Fourier Analysis and Applications. **2000m:00033**
Kyiv ★ International Symposium on Mathematical and Theoretical Physics. **2000c:00039**
Lecture Notes in Computer Science ★ Computational intelligence. **2000e:00018**
Lecture Notes in Mathematics *see* **Bethuel, Fabrice et al., 2000g:00042**
Lecture Notes in Physics ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
Lectures on mathematics ★ II Lecciones de Matemáticas. (Spanish) [II Lectures on Mathematics]
Leganés ★ Orthogonal polynomials: numerical and symbolic algorithms. **2000k:00042**
Leukerbad ★ Proceedings of the Third International Conference on Graphs and Optimization, GO-III. **2000b:00014**
Leuven ★ Proceedings of the 8th International Congress on Computational and Applied Mathematics, ICCAM-98. **2000k:00045**
Lie groups and ergodic theory ★ Lie groups and ergodic theory. **2000b:00011**
Liège ★ Computing anticipatory systems. **2000b:00008**
Linear logic ★ Linear logic. I. **2000e:00025**
Liptovský Ján ★ Fuzzy sets. Part I. **2000g:00057a**
— ★ Fuzzy sets. Part II. **2000g:00057b**
Los Alamos, NM ★ Predictability: quantifying uncertainty in models of complex phenomena. **2000g:00066**
Luxembourg ★ Travaux mathématiques. Fasc. XI. (French) [Mathematical works. Part XI] **2000k:00039**
Macau ★ Nonlinear evolution equations and their applications. **2000h:00010**
Málaga ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
Marseille ★ Analysis on infinite-dimensional Lie groups and algebras.
Mathematical problems in ecology ★ Математические проблемы экологии. (Russian) [Mathematical problems in ecology] **2000a:00021**
Mathematical works ★ Travaux mathématiques. Fasc. XI. (French) [Mathematical works. Part XI] **2000k:00039**
Meeting:
Division of Plasma Physics, American Physical Society ★ 40th Annual Meeting of the Division of Plasma Physics of the American Physical Society. **2000b:00012**
Indian Society of Mathematical Modelling and Computer Simulation ★ Advances in mathematical modelling and simulation. **2000d:00008**
Integrability and Chaos in Discrete Systems ★ Integrability and chaos in discrete systems. **2000g:00060**
Linear Logic ★ Linear logic. I. **2000e:00025**
Modes, Modals, Related Structures and Applications ★ Modes, modals, related structures and applications. **2000d:00013**
Pattern Formation and Information Processing on the Sphere ★ Pattern formation and information processing on the sphere. **2000b:00013**
Philosophy of Science Association ★ PSA 1998. Part I. **2000g:00065**
Memorial Volume:
Harris, William A., Jr. ★ Analyzing multiscale phenomena using singular perturbation methods. **2000g:00044**
Methods and applications for functional equations ★ Kansū hōteishiki no hōhō to sono ōyō. (English summary) [Methods and applications for functional equations] **2000g:00062**
Miskolc ★ International Conference on Dimension and Dynamics. **2000g:00048**
— ★ 7th International Conference on Numerical Mathematics and Computational Mechanics. **2000j:00019**
Modes, modals, related structures and applications ★ Modes, modals, related structures and applications. **2000d:00013**
Morelia ★ II Iberoamerican Conference on Topology and its Applications. **2000e:00019**
Mumbai ★ Lie groups and ergodic theory. **2000b:00011**
Munich ★ The philosophy of mathematics today. **2000c:00036**
— ★ Computer algebra in scientific computing—CASC'99. **2000g:00047**
New Orleans, LA ★ 40th Annual Meeting of the Division of Plasma Physics of the American Physical Society. **2000b:00012**
Nice ★ Three-dimensional aspects of air-sea interaction. **2000b:00016**
— ★ Trends in applications of mathematics to mechanics. **2000j:00029**
Nicosia ★ Computational methods and function theory 1997. **2000c:00029**
Niigata ★ Nonlinear analysis and convex analysis. **2000k:00041**
Nishinomiya ★ Dynamic organization of fluctuations. **2000m:00027**
NLA98: Convex analysis and chaos ★ NLA98: Convex analysis and chaos. **2000a:00022**
NLA99:
Computer algebra ★ NLA99: Computer algebra. **2000m:00031**
Non-standard applications of computer algebra ★ Non-standard applications of computer algebra. II. **2000k:00040**
Nonlinear analysis and convex analysis ★ Nonlinear analysis and convex analysis. **2000k:00041**
Nonlinear evolution equations and their applications ★ Hisenkei hatten hōteishiki to sono ōyō. [Nonlinear evolution equations and their applications] **2000a:00023**
— ★ Nonlinear evolution equations and their applications. **2000h:00010**
Nonlinear theory of generalized functions ★ Nonlinear theory of generalized functions. **2000a:00024**
Nonlinearity, bifurcation and chaos: the doors to the future ★ Nonlinearity, bifurcation and chaos: the doors to the future. Part I. **2000c:00034**
— ★ Nonlinearity, bifurcation and chaos: the doors to the future. Part II. **2000c:00035**
Novosibirsk ★ Advanced mathematics: computations and applications. **2000c:00028**
— ★ Математические проблемы экологии. (Russian) [Mathematical problems in ecology] **2000a:00021**
Oberlin, OH ★ Reduction and emergence. **2000h:00013**
Ohrid ★ Прв Конгрес на Математичарите и Информатичарите на Македонија. (Macedonian) [1st Congress of the Mathematicians and Computer Scientists of Macedonia] **2000j:00020**
Olmué ★ Complex geometry of groups. **2000g:00046**
Olomouc ★ Contributions to general algebra. 11. **2000a:00015**
Operator theory, operator algebras and related topics ★ Operator theory, operator algebras and related topics. **2000g:00063**
Optimal control of partial differential equations ★ Optimal control of partial differential equations. **2000g:00064**
Orléans la Source ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
Orono, ME ★ Analysis of divergence. **2000j:00016**
Orthogonal polynomials: numerical and symbolic algorithms ★ Orthogonal polynomials: numerical and symbolic algorithms. **2000k:00042**
Oviedo ★ 6th and 7th Spanish Congress on Fuzzy Logic and Technology. **2000c:00031**

Palermo ★ Proceedings of the International Workshop on Econophysics and Statistical Finance. **2000g:00070**
Paris ★ ENUMATH 97. **2000c:00032**
Partial differential equations ★ Partial differential equations. **2000e:00026**
Pattern formation and information processing on the sphere ★ Pattern formation and information processing on the sphere. **2000b:00013**
Philosophy of mathematics today ★ The philosophy of mathematics today. **2000c:00036**
Prague ★ Fuzzy analysis and related topics. **2000a:00016**
— ★ 8th Prague Topological Symposium on General Topology and its Relations to Modern Analysis and Algebra. Part II.
— ★ Non-standard applications of computer algebra. II. **2000k:00040**
Praha ★ Partial differential equations. **2000e:00026**
Predictability: quantifying uncertainty in models of complex phenomena ★ Predictability: quantifying uncertainty in models of complex phenomena. **2000g:00066**
Princeton, NJ ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**
Proceedings of Symposia in Applied Mathematics ★ Analyzing multiscale phenomena using singular perturbation methods. **2000g:00044**
Proceedings:
Conference of Applied Mathematics ★ Proceedings of the 15th Annual Conference of Applied Mathematics. **2000k:00043**
Conference on Fourier Analysis and Applications ★ Proceedings of the International Conference on Fourier Analysis and Applications. **2000m:00033**
Conference on Graphs and Optimization ★ Proceedings of the Third International Conference on Graphs and Optimization, GO-III. **2000b:00014**
Conference on Jordan Structures ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
Conference on Mathematics ★ International Scientific Conference on Mathematics. Proceedings. **2000j:00022**
Conference on Optimal Discrete Structures and Algorithms ★ Proceedings of the Conference on Optimal Discrete Structures and Algorithms—ODSA '97. **2000c:00037**
Conference "Approximation Theory and Harmonic Analysis" ★ Труды Международной Конференции "Теория Приближений и Гармонический Анализ". (Russian) [Proceedings of the International Conference "Approximation Theory and Harmonic Analysis"] **2000m:00032**
Congress of Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 8. **2000g:00067**
Congress on Computational and Applied Mathematics ★ Proceedings of the 8th International Congress on Computational and Applied Mathematics, ICCAM-98. **2000k:00045**
Congress on Mathematics ★ Actas V Congreso de Matemática "Dr. Antonio A. R. Monteiro". [Proceedings of the Fifth "Dr. Antonio A. R. Monteiro" Congress on Mathematics] **2000m:00034**
Europhysics Conference on Computational Physics ★ Proceedings of the Europhysics Conference on Computational Physics. **2000j:00023**
Lobachevskiĭ Mathematical Center ★ Труды Математического Центра имени Н. И. Лобачевского. Том 4. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 4]
School, DATASTAT 97 ★ Summer School DATASTAT 97. Proceedings. **2000e:00027**
Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes ★ Memorias del Seminario en Conmemoración de los 400 Años del Nacimiento de René Descartes. (Spanish) [Proceedings of the Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes] **2000g:00068**
Seminar on Mathematics and Telecommunications ★ Actas do 1° Seminário em Matemática em Telecomunicações. (Portuguese) [Proceedings of the 1st Seminar on Mathematics and Telecommunications] **2000j:00024**
Session on Mathematics and its Applications ★ Proceedings of the 13th Scientific Session on Mathematics and its Applications. **2000m:00035**
Symposium on Mathematical Physics ★ Proceedings of the XXX Symposium on Mathematical Physics. **2000g:00069**
Technology Conference in Mathematics ★ Proceedings of the Third Asian Technology Conference in Mathematics. **2000d:00014**
Workshop on Econophysics and Statistical Finance ★ Proceedings of the International Workshop on Econophysics and Statistical Finance. **2000g:00070**
Workshop on Functional Analysis ★ Proceedings of the Second International Workshop on Functional Analysis. **2000k:00046**
Workshop on Topological Graph Theory ★ Proceedings of the 10th Workshop on Topological Graph Theory. **2000h:00011**
Workshop "Tools for Mathematical Modelling" ★ Proceedings of the International Workshop "Tools for Mathematical Modelling". (Russian) **2000j:00025**
Progress in industrial mathematics at ECMI 98 ★ Progress in industrial mathematics at ECMI 98. **2000h:00012**
PSA ★ PSA 1998. Part I. **2000g:00065**
Pudasjärvi ★ Function spaces, differential operators and nonlinear analysis. **2000k:00033**
Randomness ★ Der Zufall. (German) [Randomness] **2000c:00038**
Real computation and complexity ★ Real computation and complexity. **2000m:00036**
Reduction and emergence ★ Reduction and emergence. **2000h:00013**
Report on the Symposium in Real Analysis Report on the Summer Symposium in Real Analysis XXII. **2000b:00015**
Representation theory and noncommutative harmonic analysis ★ Hyōgen ron to hikakan chōwa kaiseki. (Japanese) [Representation theory and noncommutative harmonic analysis] **2000g:00071**
Representations of groups and noncommutative harmonic analysis ★ Gun no hyōgen oyobi hikakan chōwa kaiseki. (Japanese) [Representations of groups and noncommutative harmonic analysis] **2000m:00037**
Research into application function analysis related to information mathematics ★ Research into application function analysis related to information mathematics. (Japanese) **2000k:00047**
Research on nonlinear analysis and convex analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **2000d:00015**
Resurgent functions and convolution integral equations ★ Resurgent functions to gōsei seki hōteishiki. [Resurgent functions and convolution integral equations] **2000j:00026**
Rome ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Rostock ★ Proceedings of the Conference on Optimal Discrete Structures and Algorithms—ODSA '97. **2000c:00037**
Rovinj ★ {7th International Conference on Operational Research}. **2000c:00030**
Saitama ★ NLA99: Computer algebra. **2000m:00031**
Sakado ★ NLA98: Convex analysis and chaos. **2000a:00022**
Santa Barbara, CA Report on the Summer Symposium in Real Analysis XXII. **2000b:00015**
Satisfiability problem; Boolean functions ★ The satisfiability problem; Boolean functions. **2000g:00072**
Schloss Dagstuhl ★ Real computation and complexity. **2000m:00036**
School-Conference:
Computer Linguistics ★ Труды Математического Центра имени Н. И. Лобачевского. Том 4. (Russian) [Proceedings of the N. I. Lobachevskiĭ Mathematical Center. Vol. 4]
School-Symposium:
Spectral and Evolutionary Problems ★ Spectral and evolutionary problems. Vol. 8. **2000g:00074**
— ★ Spectral and evolutionary problems. Vol. 9. **2000g:00075**
School:
Algebra ★ XV Escola de Álgebra. [15th School of Algebra] **2000m:00038**
DATASTAT 97 ★ Summer School DATASTAT 97. Proceedings. **2000e:00027**
Fourier Series: Theory and Applications ★ Ряди Фур'є: теорія і застосування. (Russian) [Fourier series: theory and applications] **2000m:00029**
Function Spaces and Complex Analysis ★ Function spaces and complex analysis, Joensuu 1997. **2000d:00011**
Geometry and Physics ★ The 18th Winter School "Geometry and Physics". **2000a:00025**
Theory and Numerics for Conservation Laws ★ An introduction to recent developments in theory and numerics for conservation laws. **2000g:00061**
Universal Algebra and Ordered Sets ★ Contributions to general algebra. 11. **2000a:00015**
Selected topics in discrete mathematics ★ Selected topics in discrete mathematics. **2000m:00039**
Seminar:
Anniversary of the Birth of René Descartes ★ Memorias del Seminario en Conmemoración de los 400 Años del Nacimiento de René Descartes. (Spanish) [Proceedings of the Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes] **2000g:00068**
Current Developments in Mathematics ★ Current developments in mathematics, 1996. **2000g:00054**
Mathematical Physics ★ Moscow Seminar in Mathematical Physics. **2000g:00073**
Mathematics and Telecommunications ★ Actas do 1° Seminário em Matemática em Telecomunicações. (Portuguese) [Proceedings of the 1st Seminar on Mathematics and Telecommunications] **2000j:00024**
Real Computation and Complexity ★ Real computation and complexity. **2000m:00036**
Spectral Theory and Geometry ★ Séminaire de Théorie Spectrale et Géométrie. No. 14. Année 1995–1996. (French) [Seminar on Spectral Theory and Geometry. No. 14. Year 1995–1996] **2000f:00014**
Towards 100 Years After Sophus Lie ★ {Towards 100 years after Sophus Lie}. **2000j:00027**
— ★ {Towards 100 years after Sophus Lie}. **2000j:00028**
Session:
Calculus of Variations and Geometric Evolution Problems *see* **Bethuel, Fabrice et al., 2000g:00042**
Mathematics and its Applications ★ Proceedings of the 13th Scientific Session on Mathematics and its Applications. **2000m:00035**
Sevastopol ★ Spectral and evolutionary problems. Vol. 8. **2000g:00074**
— ★ Spectral and evolutionary problems. Vol. 9. **2000g:00075**
Seville ★ Forms of mathematical knowledge. **2000k:00032**
Singular phenomena of dynamical systems ★ Singular phenomena of dynamical systems. **2000m:00040**
Singularity theory and differential equations ★ Singularity theory and differential equations. **2000m:00041**
Special Issue:
Boolean functions ★ The satisfiability problem; Boolean functions. **2000g:00072**
Geometrical aspects of nonlinear differential equations ★ Geometrical aspects of nonlinear differential equations. **2000d:00012**
Randomness ★ Der Zufall. (German) [Randomness] **2000c:00038**
Special Year:
Discrete Probability ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**
Spectral and evolutionary problems ★ Spectral and evolutionary problems. Vol. 8. **2000g:00074**
— ★ Spectral and evolutionary problems. Vol. 9. **2000g:00075**
Spectral problems in geometry and arithmetic ★ Spectral problems in geometry and arithmetic. **2000d:00016**
Springfield, MO ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
— ★ Dynamical systems and differential equations. Vol. II. **2000e:00021**
Srní ★ The 18th Winter School "Geometry and Physics". **2000a:00025**
St. Konstantin ★ Aspects of complex analysis, differential geometry, mathematical physics and applications. **2000g:00045**
St. Petersburg ★ Proceedings of the International Workshop "Tools for Mathematical Modelling". (Russian) **2000j:00025**
— ★ 2nd St. Petersburg Workshop on Simulation. **2000m:00043**
Starà Lesná ★ 6th Conference on Numerical Methods in Continuum Mechanics. **2000j:00018**
Statistical physics methods in discrete probability, combinatorics, and theoretical computer science ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**

Štiřín Castle ★ Contemporary trends in discrete mathematics. **2000d:00009**
Symposium:
Algebraic Combinatorics ★ Daīsūteki kumiawaseron. [Algebraic combinatorics] **2000a:00013**
Analysis and Geometry Appearing in Multivariable Function Theory ★ Tahensū kansū ron ni arawareru kaiseki to kika. [Analysis and geometry appearing in multivariable function theory] **2000a:00014**
Applied and Industrial Mathematics ★ Applied and industrial mathematics, Venice–2, 1998. **2000m:00025**
Applied Mathematics of Discrete Integrable Systems ★ Applied mathematics of discrete integrable systems. (Japanese) **2000k:00027**
Chern, Shiing Shen ★ The Chern Symposium. 1998. **2000h:00014**
Complex Analysis and Microlocal Analysis ★ Complex analysis and microlocal analysis. **2000k:00028**
Complex Analysis and Related Topics ★ Complex analysis and related topics. **2000k:00029**
Development of Infinite-dimensional Non-commutative Analysis ★ Development of infinite-dimensional non-commutative analysis. **2000k:00031**
Dynamic Organization of Fluctuations ★ Dynamic organization of fluctuations. **2000m:00027**
Dynamical Systems and Differential Geometry ★ Rikigakkei to bibun kikagaku. (Japanese) [Dynamical systems and differential geometry] **2000d:00010**
— ★ Rigakukei to bibun kikagaku. (Japanese) [Dynamical systems and differential geometry] **2000m:00028**
Economic Informatics ★ Information technology. **2000g:00059**
General Topology and its Relations to Modern Analysis and Algebra ★ 8th Prague Topological Symposium on General Topology and its Relations to Modern Analysis and Algebra. Part II.
Harmonic Analysis and Nonlinear Partial Differential Equations ★ Chōwa kaisekigaku to hisenkei hembibun hōteishiki. (Japanese) [Harmonic analysis and nonlinear partial differential equations] **2000a:00019**
— ★ Harmonic analysis and nonlinear partial differential equations. **2000k:00035**
Hyperbolic Spaces and Related Topics ★ Hyperbolic spaces and related topics. (Japanese) **2000k:00036**
Invariants of Dynamical Systems and their Applications ★ Rikigakkei no fuhenryō to sono ōyō. [Invariants of dynamical systems and their applications] **2000e:00024**
Mathematical and Computational Applications ★ Second International Symposium on Mathematical and Computational Applications. **2000g:00076**
Mathematical and Theoretical Physics ★ International Symposium on Mathematical and Theoretical Physics. **2000c:00039**
Mathematical Physics ★ Proceedings of the XXX Symposium on Mathematical Physics. **2000g:00069**
Mathematics ★ IV Simposio de Matemática. (Spanish) [IVth Symposium of Mathematics] **2000d:00017**
Methods and Applications for Functional Equations ★ Kansū hōteishiki no hōhō to sono ōyō. (English summary) [Methods and applications for functional equations] **2000g:00062**
Nonlinear Analysis ★ NLA98: Convex analysis and chaos. **2000a:00022**
— ★ NLA99: Computer algebra. **2000m:00031**
Nonlinear Evolution Equations and their Applications ★ Nonlinear evolution equations and their applications. **2000h:00010**
Real Analysis Report on the Summer Symposium in Real Analysis XXII. **2000b:00015**
Representation Theory and Noncommutative Harmonic Analysis ★ Hyōgen ron to hikakan chōwa kaiseki. (Japanese) [Representation theory and noncommutative harmonic analysis] **2000g:00071**
Representations of Groups and Noncommutative Harmonic Analysis ★ Gun no hyōgen oyobi hikakan chōwa kaiseki. (Japanese) [Representations of groups and noncommutative harmonic analysis] **2000m:00037**
Research into Application Function Analysis Related to Information Mathematics ★ Research into application function analysis related to information mathematics. (Japanese) **2000k:00047**
Research on Nonlinear Analysis and Convex Analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **2000d:00015**
Resurgent Functions and Convolution Integral Equations ★ Resurgent functions to gōsei seki hōteishiki. [Resurgent functions and convolution integral equations] **2000j:00026**
Singular Phenomena of Dynamical Systems ★ Singular phenomena of dynamical systems. **2000m:00040**
Singularity Theory and Differential Equations ★ Singularity theory and differential equations. **2000m:00041**
Theory and Applications of Computer Algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Theory and applications of computer algebra] **2000g:00077**
Theory of Reproducing Kernels and their Applications ★ Saisei kaku no riron to sono ōyō. (Japanese) [The theory of reproducing kernels and their applications] **2000c:00040**
Topological Field Theory and Related Topics ★ Isō ba no riron to kanren suru sūgaku no sho mondai. [Topological field theory and related mathematical topics] **2000k:00050**
Topological Field Theory, Primitive Forms and Related Topics ★ Isō ba no riron to kanren suru sūgaku no sho mondai. [Topological field theory and related mathematical topics] **2000k:00050**
Trends in Applications of Mathematics to Mechanics ★ Trends in applications of mathematics to mechanics. **2000j:00029**
Taipei ★ Algebra and geometry. **2000a:00012**
Tarragona ★ 6th and 7th Spanish Congress on Fuzzy Logic and Technology. **2000c:00031**
Theory and applications of computer algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Theory and applications of computer algebra] **2000g:00077**
Theory of reproducing kernels and their applications ★ Saisei kaku no riron to sono ōyō. (Japanese) [The theory of reproducing kernels and their applications] **2000c:00040**
Three-dimensional aspects of air-sea interaction ★ Three-dimensional aspects of air-sea interaction. **2000b:00016**
Timişoara ★ Operator theory, operator algebras and related topics. **2000g:00063**
TMSF, AUBG'99 ★ IMSF, AUBG'99. Part A. **2000k:00048**
— ★ TMSF, AUBG'99. Part B. **2000k:00049**
Tokyo ★ Pattern formation and information processing on the sphere. **2000b:00013**
— ★ Linear logic. I. **2000e:00025**
Topological field theory and related mathematical topics ★ Isō ba no rīron to kanren suru sūgaku no sho mondai. [Topological field theory and related mathematical topics] **2000k:00050**
Torino ★ Jacobian conjecture and dynamical systems. **2000a:00020**
Toruń ★ Proceedings of the XXX Symposium on Mathematical Physics. **2000g:00069**
Towards 100 years after Sophus Lie ★ {Towards 100 years after Sophus Lie}. **2000j:00027**
— ★ {Towards 100 years after Sophus Lie}. **2000j:00028**
Travaux mathématiques ★ Travaux mathématiques. Fasc. XI. (French) [Mathematical works. Part XI] **2000k:00039**
Trends in applications of mathematics to mechanics ★ Trends in applications of mathematics to mechanics. **2000j:00029**
Trends in mathematical physics ★ Trends in mathematical physics. **2000c:00041**
Tricomi's ideas and comtemporary applied mathematics ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Trier ★ Proceedings of the Second International Workshop on Functional Analysis. **2000k:00046**
Tsukuba ★ Proceedings of the Third Asian Technology Conference in Mathematics. **2000d:00014**
Tula ★ Труды Международной Конференции "Теория Приближений и Гармонический Анализ". (Russian) [Proceedings of the International Conference "Approximation Theory and Harmonic Analysis"] **2000m:00032**
Turin ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Vaquerías ★ Coloquio de Álgebras de Operadores y Grupos Cuánticos. [Colloquium on Operator Algebras and Quantum Groups] **2000e:00017**
Varna ★ Geometry, integrability and quantization. **2000m:00030**
Velké Karlovice ★ Contributions to general algebra. 11. **2000a:00015**
Venice ★ Applied and industrial mathematics, Venice–2, 1998. **2000m:00025**
Vienna ★ Nonlinear theory of generalized functions. **2000a:00024**
— ★ Discrete integrable geometry and physics. **2000g:00055**
Vladivostok ★ Интегральные уравнения и краевые задачи математической физики. Часть 1, 2. (Russian) [Integral equations and boundary value problems in mathematical physics. Part 1, 2] **2000k:00037**
Vorau ★ 107 Jahre Drehfluchtprinzip. (German) [107 years of the principle of rotation of vanishing elements] **2000k:00025**
Wailea, HI ★ Non-standard applications of computer algebra. II. **2000k:00040**
Warsaw ★ Modes, modals, related structures and applications. **2000d:00013**
— ★ Selected topics in discrete mathematics. **2000m:00039**
Working Group:
Forms of Mathematical Knowledge ★ Forms of mathematical knowledge. **2000k:00032**
Workshop:
Analysis and its Applications ★ Analysis of divergence. **2000j:00016**
Complex Structures and Vector Fields ★ Aspects of complex analysis, differential geometry, mathematical physics and applications. **2000g:00045**
Computer Algebra in Scientific Computing ★ Computer algebra in scientific computing—CASC'99. **2000g:00047**
Econophysics and Statistical Finance ★ Proceedings of the International Workshop on Econophysics and Statistical Finance. **2000g:00070**
Functional Analysis ★ Proceedings of the Second International Workshop on Functional Analysis. **2000k:00046**
Fundamental Open Problems in Science ★ Fundamental open problems in science at the end of the millennium. Vol. I–III. **2000k:00034**
General Algebra ★ Contributions to general algebra. 11. **2000a:00015**
Generalized Convexity and Monotonicity in Economic Modeling ★ CODE Workshop on Generalized Convexity and Monotonicity in Economic Modeling. **2000m:00042**
Global Invertibility of Polynomial Functions ★ Jacobian conjecture and dynamical systems. **2000a:00020**
Measure Theory and Real Analysis ★ Workshop di Teoria della Misura e Analisi Reale. [Workshop on Measure Theory and Real Analysis] **2000a:00026**
Nonlinear Theory of Generalized Functions ★ Nonlinear theory of generalized functions. **2000a:00024**
Orthogonal Polynomials: Numerical and Symbolic Algorithms ★ Orthogonal polynomials: numerical and symbolic algorithms. **2000k:00042**
Recent Trends in Complex Methods for Partial Differential Equations ★ Complex methods for partial differential equations. **2000k:00030**
Satisfiability ★ The satisfiability problem; Boolean functions. **2000g:00072**
Simulation ★ 2nd St. Petersburg Workshop on Simulation. **2000m:00043**
Statistical Physics Methods in Discrete Probability, Combinatorics, and Theoretical Computer Science ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**
Tools for Mathematical Modelling ★ Proceedings of the International Workshop "Tools for Mathematical Modelling". (Russian) **2000j:00025**
Topological Graph Theory ★ Proceedings of the 10th Workshop on Topological Graph Theory. **2000h:00011**
Transform Methods and Special Functions ★ IMSF, AUBG'99. Part A. **2000k:00048**
— ★ TMSF, AUBG'99. Part B. **2000k:00049**
Yokohama ★ Proceedings of the 10th Workshop on Topological Graph Theory. **2000h:00011**
Žilina ★ International Scientific Conference on Mathematics. Proceedings. **2000j:00022**
Zufall ★ Der Zufall. (German) [Randomness] **2000c:00038**
Zürich ★ Hyperbolic problems: theory, numerics, applications. Vol. I. **2000e:00022**
— ★ Hyperbolic problems: theory, numerics, applications. Vol. II. **2000e:00023**

Items with secondary classifications in 00B25

(Abello, James M.) *see* **External memory algorithms, 2000h:68015**
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(Ajayi, D. Olayide A.) *see* Directions in mathematics, 2000m:00048
(Baggett, Lawrence Wasson) *see* Functional and harmonic analysis of wavelets and frames, 2000j:42001
(Bakhturin, Yu. A.) *see* Algebra, 2000m:00044
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(Berndt, Bruce C.) *see* Continued fractions: from analytic number theory to constructive approximation, 2000d:00018
(Bona, Jerry L.) *see* Nonlinear PDE's, dynamics and continuum physics, 2000m:35003
(Booss, Bernhelm) *see* Geometric aspects of partial differential equations, 2000e:58001
(Bourguignon, Jean Pierre) *see* Geometric theory of singular phenomena in partial differential equations, 2000c:58001
(Boyer, Robert) *see* Proceedings: Congress of Numerical Analysis, 2000e:65011
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(Bungartz, Hans-Joachim) *see* High performance scientific and engineering computing, 2000e:65006
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(Cantini, Andrea) *see* Logic and foundations of mathematics, 2000j:03003
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(Chui, Charles K.) *see* Approximation theory, 2000k:41002 *and* 2000k:41003
(Clarke, Francis H.) *see* Nonlinear analysis, differential equations and control, 2000a:49003
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Krylov, Nicolai V. (*with* Röckner, Michael; Zabczyk, J.) ★ Stochastic PDE's and Kolmogorov equations in infinite dimensions. 2000g:60004
(Kuperberg, Krystyna) *see* Geometry and topology in dynamics, 2000h:37003
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(Maiellaro, Michele) *see* Proceedings: Conference on Waves and Stability in Continuous Media, 2000e:76008
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(Targonski, György) *see* Conference: Iteration Theory, 2000j:00031
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(Trapani, Camillo) *see* Workshop: Operator Theory, 2000e:47001
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(Zenger, Christoph) *see* **High performance scientific and engineering computing. 2000e:65006**

Items listed otherwise than by author

Alfred Tarski and the Vienna Circle ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Algebra ★ Algebra. **2000m:00044**
Analysis and geometry in several complex variables ★ Analysis and geometry in several complex variables. **2000c:32001**
Analysis and geometry of hyperbolic spaces ★ Analysis and geometry of hyperbolic spaces. (Japanese) **2000b:57001**
Analytical and computational methods in scattering and applied mathematics ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
Anniversary:
  Birth of Kurosh, A. G. ★ Algebra. **2000m:00044**
Applications of ordered sets in computer science ★ Applications of ordered sets in computer science. **2000e:68004**
Approximation theory ★ Approximation theory IX. Vol. 1. **2000k:41002**
— ★ Approximation theory IX. Vol. 2. **2000k:41003**
Arles ★ Actes du 30ème Congrès d'Analyse Numérique: CANum'98. (French) [Proceedings of the 30th Congress of Numerical Analysis: CANum '98] **2000e:65011**
Baltimore, MD ★ Proceedings of the Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2000j:68006**
Barcelona ★ Randomization and approximation techniques in computer science. **2000h:68025**
Bari ★ Proceedings of the IX International Conference on Waves and Stability in Continuous Media. **2000e:76008**
Bielsko-Biała ★ {Effective methods in algebraic and analytic geometry}. **2000g:14003**
Birmingham, AL ★ Differential equations and mathematical physics. **2000h:35002**
Birthday:
  Waadeland, Haakon ★ Continued fractions and geometric function theory (CONFUN). **2000a:65003**
Boston, MA ★ From Dedekind to Gödel. (English summary) **2000k:03008**
— ★ Particles, strings and cosmology. **2000c:81009**
Braga ★ Proceedings of the 1st International Meeting on Geometry and Topology. **2000a:53001**
Braunschweig ★ Applications of ordered sets in computer science. **2000e:68004**
Brno ★ Differential geometry and applications. **2000e:53004**
Calculus of variations and differential equations ★ Calculus of variations and differential equations. **2000e:49002**
Calculus of variations and optimal control ★ Calculus of variations and optimal control. **2000e:49003**
Canberra ★ Geometric approaches to differential equations. **2000m:00019**
Cefalù ★ International Workshop on Operator Theory. **2000e:47001**
Cetraro *see* **Krylov, Nicolai V. et al., 2000g:60004**
Chelyabinsk ★ Точно решаемые модели математической физики. (Russian) [Exactly solvable models in mathematical physics] **2000e:81006**
Chongqing ★ Nonlinear partial differential equations and applications. **2000c:35003**
Coding theory, cryptography and related areas ★ Coding theory, cryptography and related areas. **2000k:94001**
Colloquium:
  Group Theoretical Methods in Physics ★ Group22: Proceedings of the XXII International Colloquium on Group Theoretical Methods in Physics. **2000c:81010**
  Impact of Modern Dynamics in Astronomy ★ Impact of modern dynamics in astronomy. **2000f:70001**
Columbia, MO ★ Continued fractions: from analytic number theory to constructive approximation. **2000d:00018**
Combinatorics and number theory ★ Combinatorics and number theory. **2000e:05002**
Combinatorics, computation & logic '99 ★ Combinatorics, computation & logic '99. **2000f:68001**
Computational methods for representations of groups and algebras ★ Computational methods for representations of groups and algebras. **2000d:16001**
Conference:
  33 Years of Gröbner Bases ★ Gröbner bases and applications. **2000e:13003**
  Alfred Tarski and the Vienna Circle ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
  Algebraic ★ Algebra. **2000m:00044**
  Applied Mathematics ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
  Approximation Theory ★ Approximation theory IX. Vol. 1. **2000k:41002**
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  Calculus of Variations and Related Topics ★ Calculus of variations and differential equations. **2000e:49002**
  — ★ Calculus of variations and optimal control. **2000e:49003**
  Coding Theory, Cryptography and Related Areas ★ Coding theory, cryptography and related areas. **2000k:94001**
  Computational Methods for Representations of Groups and Algebras ★ Computational methods for representations of groups and algebras. **2000d:16001**
  Continued Fractions and Geometric Function Theory ★ Continued fractions and geometric function theory (CONFUN). **2000a:65003**
  Continued Fractions: From Analytic Number Theory to Constructive Approximation ★ Continued fractions: from analytic number theory to constructive approximation. **2000d:00018**
  Differential Equations and Mathematical Physics ★ Differential equations and mathematical physics. **2000h:35002**
  Differential Equations and their Applications ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications]
  Differential Geometry and Applications ★ Differential geometry and applications. **2000e:53004**
  Directions in Mathematics ★ Directions in mathematics. **2000m:00048**
  Discrete Mathematics and Number Theory ★ Combinatorics and number theory. **2000e:05002**
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  Effective Methods in Algebraic and Analytic Geometry ★ {Effective methods in algebraic and analytic geometry}. **2000g:14003**
  Exactly Solvable Models in Mathematical Physics ★ Точно решаемые модели математической физики. (Russian) [Exactly solvable models in mathematical physics] **2000e:81006**
  Formal Power Series and Algebraic Combinatorics ★ Formal power series and algebraic combinatorics. **2000h:05001**
  Geometry, Combinatorial Designs and Related Structures ★ Geometry, combinatorial designs and related structures. **2000b:51002**
  High Performance Scientific and Engineering Computing ★ High performance scientific and engineering computing. **2000e:65006**
  Iteration Theory ★ {European Conference on Iteration Theory}. **2000j:00031**
  Low-dimensional Topology ★ Low-dimensional topology. **2000b:57002**
  Mathematics of Surfaces ★ The mathematics of surfaces. VII. **2000j:65012**
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  Nonlinear Partial Differential Equations and Applications ★ Nonlinear partial differential equations and applications. **2000c:35003**
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  Nonlinear PDE's, Dynamics and Continuum Physics ★ Nonlinear PDE's, dynamics and continuum physics. **2000m:35003**
  ***p*-adic Functional Analysis** ★ *p*-adic functional analysis. **2000c:46003**
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  Ph.D. Students in Computer Science ★ {1st Conference for Ph.D. Students in Computer Science}. **2000h:68014**
  Preconditioned Iterative Solution Methods for Large Scale Problems in Scientific Computations ★ PRISM '97. **2000a:65004**
  Quantum Aspects of Gauge Theories, Supersymmetry and Unification ★ Quantum aspects of gauge theories, supersymmetry and unification. **2000e:81009**
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  Spectral Theory and Geometry ★ Spectral theory and geometry. **2000i:58003**
  Symbolic Universe ★ The symbolic universe. **2000m:01004**
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  Logic, Methodology and Philosophy of Science ★ Logic and foundations of mathematics. **2000j:03003**
  Numerical Analysis ★ Actes du 30ème Congrès d'Analyse Numérique: CANum'98. (French) [Proceedings of the 30th Congress of Numerical Analysis: CANum '98] **2000e:65011**
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Diffuse Waves in Complex Media ★ Diffuse waves in complex media. **2000c:82001**
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Newark, DE ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
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Colloquium on Group Theoretical Methods in Physics ★ Group22: Proceedings of the XXII International Colloquium on Group Theoretical Methods in Physics. **2000c:81010**
Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2000g:35003**
Conference on Waves and Stability in Continuous Media ★ Proceedings of the IX International Conference on Waves and Stability in Continuous Media. **2000e:76008**
Congress of Numerical Analysis ★ Actes du 30ème Congrès d'Analyse Numérique: CANum'98. (French) [Proceedings of the 30th Congress of Numerical Analysis: CANum '98] **2000e:65011**
Meeting on Geometry and Topology ★ Proceedings of the 1st International Meeting on Geometry and Topology. **2000a:53001**
Symposium on Discrete Algorithms ★ Proceedings of the Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2000j:68006**
Workshop on Global Analysis, Differential Geometry, Lie Algebras ★ Proceedings of the Workshop on Global Analysis, Differential Geometry, Lie Algebras. **2000e:53005**
Progress in Mathematics ★ Computational methods for representations of groups and algebras. **2000d:16001**
Quantum aspects of gauge theories, supersymmetry and unification ★ Quantum aspects of gauge theories, supersymmetry and unification. **2000e:81009**
Quantum probability theory and entropy analysis ★ Ryōshi kakuritsu ron to entoropii kaiseki. (Japanese) [Quantum probability theory and entropy analysis] **2000c:81011**
Randomization and approximation techniques in computer science ★ Randomization and approximation techniques in computer science. **2000h:68025**
Roskilde ★ Geometric aspects of partial differential equations. **2000e:58001**
Saint-Jean-de-Monts ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2000g:35003**
San Antonio, TX ★ Geometry and topology in dynamics. **2000h:37003**
— ★ The functional and harmonic analysis of wavelets and frames. **2000j:42001**
Saransk ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications]
Seminar:
Algorithms and Complexity for Continuous Problems ★ {Dagstuhl Seminar on Algorithms and Complexity for Continuous Problems}. **2000e:65012**
Gelfand Mathematical ★ The Gelfand Mathematical Seminars, 1996–1999. **2000h:00016**
Nonlinear Analysis, Differential Equations and Control ★ Nonlinear analysis, differential equations and control. **2000a:49003**
Session:
Functional and Harmonic Analysis of Wavelets ★ The functional and harmonic analysis of wavelets and frames. **2000j:42001**
Geometry in Dynamics ★ Geometry and topology in dynamics. **2000h:37003**
Stochastic PDE's and Kolmogorov Equations in Infinite Dimensions *see* **Krylov, Nicolai V. et al., 2000g:60004**
Topology in Dynamics ★ Geometry and topology in dynamics. **2000h:37003**
South Hadley, MA ★ Nonlinear PDE's, dynamics and continuum physics. **2000m:35003**
Special Issue:
Comfort, William Wistar ★ Special issue in honor of W. W. Comfort. **2000e:00030**
Polynomial elimination—algorithms and applications ★ Polynomial elimination—algorithms and applications. **2000e:68012**
Spectral theory and geometry ★ Spectral theory and geometry. **2000i:58003**
Spetses ★ Geometry, combinatorial designs and related structures. **2000b:51002**
Stochastic analysis and mathematical physics ★ Stochastic analysis and mathematical physics. **2000b:81002**
Stochastic PDE's and Kolmogorov equations in infinite dimensions *see* **Krylov, Nicolai V. et al., 2000g:60004**
Structure theory of set addition ★ Structure theory of set addition. **2000b:11005**
Symbolic universe ★ The symbolic universe. **2000m:01004**
Symposia Mathematica ★ Geometric theory of singular phenomena in partial differential equations. **2000c:58001**
Symposium:
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Analysis and Geometry of Hyperbolic Spaces ★ Analysis and geometry of hyperbolic spaces. (Japanese) **2000b:57001**
Computing: the Australasian Theory ★ Combinatorics, computation & logic '99. **2000f:68001**
Discrete Algorithms ★ Proceedings of the Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2000j:68006**
Geometry and Topology of Caustics ★ Geometry and topology of caustics—CAUSTICS '98. **2000i:58002**
Models of Computation and Algorithms ★ Keisan moderu to arugorizumu. (Japanese) [Models of computation and algorithms] **2000k:68012**
Nonlinear Evolution Equations and Applications ★ Hisenkei hatten hōteishiki to sono ōyō. (Japanese. English summary) [Nonlinear evolution equations and applications] **2000k:35002**
Particles, Strings and Cosmology ★ Particles, strings and cosmology. **2000c:81009**
Quantum Probability Theory and Entropy Analysis ★ Ryōshi kakuritsu ron to entoropii kaiseki. (Japanese) [Quantum probability theory and entropy analysis] **2000c:81011**
Szeged ★ {1st Conference for Ph.D. Students in Computer Science}. **2000h:68014**
Thessaloniki ★ Proceedings of the Workshop on Global Analysis, Differential Geometry,

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Tiruchirappalli ★ Combinatorics and number theory. **2000e:05002**
Trondheim ★ Continued fractions and geometric function theory (CONFUN). **2000a:65003**
Vienna ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Viña del Mar ★ Stochastic analysis and mathematical physics. **2000b:81002**
Warsaw ★ Geometry and topology of caustics—CAUSTICS '98. **2000i:58002**
Winston-Salem, NC ★ Geometry and topology in dynamics. **2000h:37003**
Workshop:
Bellman Continuum ★ Sixth International Workshop of the Bellman Continuum. **2000c:90009**
Domain Theory ★ Applications of ordered sets in computer science. **2000e:68004**
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Geometric Theory of Singular Phenomena in Partial Differential Equations ★ Geometric theory of singular phenomena in partial differential equations. **2000c:58001**
Global Analysis, Differential Geometry, Lie Algebras ★ Proceedings of the Workshop on Global Analysis, Differential Geometry, Lie Algebras. **2000e:53005**
Intelligent Systems and Innovative Computations ★ Sixth International Workshop of the Bellman Continuum. **2000c:90009**
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Andrews, George E. ★ The Andrews Festschrift. **2000b:00017**
Arnol'd, Vladimir Igorevich ★ В. И. Арнольду—60 лет. (Russian) [V. I. Arnol'd (on the occasion of his 60th birthday)]
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Chua, Leon O. ★ Visions of nonlinear science in the 21st century. Part I. **2000a:00029**
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Novikov, Sergeĭ Petrovich ★ К 60-летию со дня рождения академика Сергея Петровича Новикова. (Russian) [Dedicated to Academician Sergeĭ Petrovich Novikov on the occasion of his 60th birthday] **2000g:00081**
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Sedov, Leonid Ivanovich ★ К 90-летию со дня рождения академика Леонида Ивановича Седова. (Russian) [Dedicated to Academician Leonid Ivanovich Sedov on the occasion of his 90th birthday] **2000g:00080**
Shafarevich, Igor' Rostislavovich ★ К семидесятилетию со дня рождения академика Игоря Ростиславовича Шафаревича. (Russian) [Dedicated to Academician Igor' Rostislavovich Shafarevich on the occasion of his seventieth birthday]
Srivastava, Jagdish Narain ★ J. N. Srivastava: felicitation volume.
Temam, Roger ★ Special issue for R. Temam's 60th birthday.
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Chennai ★ *p*-adic analysis, summability theory, fuzzy analysis and applications (INCOPASFA). **2000j:00035**
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Dedicated to Academician Leonid Ivanovich Sedov on the occasion of his 90th birthday ★ К 90-летию со дня рождения академика Леонида Ивановича Седова. (Russian) [Dedicated to Academician Leonid Ivanovich Sedov on the occasion of his 90th birthday]

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Dedicated to Academician Lev Semenovich Pontryagin on the occasion of his 90th birthday ★ К 90-летию со дня рождения академика Льва Семеновича Понтрягина. (Russian) [Dedicated to Academician Lev Semenovich Pontryagin on the occasion of his 90th birthday]
Dedicated to Academician Sergeĭ Petrovich Novikov on the occasion of his 60th birthday ★ К 60-летию со дня рождения академика Сергея Петровича Новикова. (Russian) [Dedicated to Academician Sergeĭ Petrovich Novikov on the occasion of his 60th birthday] **2000g:00081**
Dedicated to H. S. M. Coxeter on the occasion of his 90th birthday ★ {Dedicated to H. S. M. Coxeter on the occasion of his 90th birthday}.
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Vignoli, Alfonso ★ Recent trends in nonlinear analysis. **2000m:00051**
Wicke, Howard H. ★ Special issue in honor of Howard H. Wicke.
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Madison, WI ★ Special issue dedicated to Hans Schneider. **2000g:00091**
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— ★ The Maz′ya anniversary collection. Vol. 2. **2000m:00050**
Meeting:
Gauge Theories of Gravity ★ Mexican Meeting on Gauge Theories of Gravity. **2000b:00018**
Infeld (1898–1968) ★ The Infeld Centennial Meeting. **2000j:00033**
Memorial Issue:
Almgren, Frederick Justin, Jr. ★ {Dedicated to the memory of Fred Almgren}.
Assmus, Edward F., Jr. ★ Designs and codes—a memorial tribute to Ed Assmus.
Ball, B. J. ★ Special issue in memory of B. J. Ball. **2000a:00028**
Bouillet, Julio Esteban ★ {Dedicated to the memory of Julio E. Bouillet}.
Chevalley, Claude C. ★ Dedicated to the memory of Claude Chevalley.
Erdős, Paul[1] ★ Paul Erdős memorial collection. **2000a:00027**
Flato, Moshé ★ Moshé Flato (1937–1998).
— ★ Moshé Flato (1937–1998).
Infeld, Leopold ★ The Infeld Centennial Meeting. **2000j:00033**
Jaeger, François ★ Symposium à la Mémoire de François Jaeger. [Symposium in Memory of François Jaeger] **2000c:00049**
Pontryagin, Lev Semenovich ★ К 90-летию со дня рождения академика Льва Семеновича Понтрягина. (Russian) [Dedicated to Academician Lev Semenovich Pontryagin on the occasion of his 90th birthday]
Scherk, Joel ★ Superstrings, M, F, S... theory.
Schützenberger, Marcel-Paul ★ {Dedicated to the memory of Marcel-Paul Schützenberger}.
Szlenk, Wiesław ★ {Dedicated to the memory of Wiesław Szlenk}. **2000m:00047**
Tagamlitski, Yaroslav A. ★ {Session Dedicated to the Memory of Yaroslav Tagamlitski}. **2000m:00053**
Targonski, György ★ {European Conference on Iteration Theory}. **2000j:00031**
Memorial Volume:
Calderón, Alberto Pedro ★ Harmonic analysis and partial differential equations. **2000j:00032**
De Giorgi, Ennio ★ Contributi dedicati alla memoria di Ennio De Giorgi. [Papers in memory of Ennio De Giorgi]
Kleinman, Ralph Ellis ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
Macnamara, John ★ Language, logic, and concepts. **2000c:00045**
Sah, Chih-Han ★ The Gelfand Mathematical Seminars, 1996–1999. **2000h:00016**
Schneider, Michael Hellmut ★ Complex analysis and algebraic geometry. **2000m:00046**
Taussky-Todd, Olga ★ Olga Taussky-Todd: in memoriam. **2000c:00046**
Mexico City ★ Mexican Meeting on Gauge Theories of Gravity. **2000b:00018**
Mikio Sato: a great Japanese mathematician of the twentieth century ★ Mikio Sato: a great Japanese mathematician of the twentieth century. **2000g:00087**
Minisymposium:
Mathematical Aspects of Boundary Element Methods ★ Mathematical aspects of boundary element methods. **2000g:00086**
Moscow ★ Algebra. **2000m:00044**
Moshé Flato ★ Moshé Flato (1937–1998).
— ★ Moshé Flato (1937–1998).
Multivariate analysis, design of experiments, and survey sampling ★ Multivariate analysis, design of experiments, and survey sampling. **2000g:00088**
Muszyna-Złockie ★ {European Conference on Iteration Theory}. **2000j:00031**

New York ★ Algebra, K-theory, groups, and education. **2000h:00015**
Newark, DE ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
Nonlinear analysis and related problems ★ Нелинейный анализ и смежные вопросы. (Russian) [Nonlinear analysis and related problems] **2000e:00029**
Olga Taussky-Todd: in memoriam ★ Olga Taussky-Todd: in memoriam. **2000c:00046**
***p*-adic analysis, summability theory, fuzzy analysis and applications (INCOPASFA)** ★ p-adic analysis, summability theory, fuzzy analysis and applications (INCOPASFA). **2000j:00035**
Palaiseau ★ Mathematical aspects of boundary element methods. **2000g:00086**
Papers in memory of Ennio De Giorgi ★ Contributi dedicati alla memoria di Ennio De Giorgi. [Papers in memory of Ennio De Giorgi]
Paul Erdős memorial collection ★ Paul Erdős memorial collection. **2000a:00027**
Prague ★ Proceedings of the Prague Mathematical Conference 1996. **2000c:00048**
Problems of analytical mechanics and its applications ★ Вопросы аналитической механики и ее применений. (Russian) [Problems of analytical mechanics and its applications] **2000k:00053**
Proceedings:
  Conference on Probability, Ergodic Theory, and Analysis ★ Proceedings of the Conference on Probability, Ergodic Theory, and Analysis. **2000c:00047**
  Institute of Mathematics ★ Труды Института Математики. Том 3. (Russian) [Proceedings of the Institute of Mathematics. Vol. 3] **2000g:00089**
  Mathematical Conference ★ Proceedings of the Prague Mathematical Conference 1996. **2000c:00048**
Recent trends in nonlinear analysis ★ Recent trends in nonlinear analysis. **2000m:00051**
Rostock ★ The Maz′ya anniversary collection. Vol. 1. **2000m:00049**
— ★ The Maz′ya anniversary collection. Vol. 2. **2000m:00050**
School:
  Mathematical ★ Voronezh Winter Mathematical Schools. **2000g:00090**
Selected papers in honour of Ettore Casari ★ Selected papers in honour of Ettore Casari.
Seminar:
  Andrews, George E. ★ The Andrews Festschrift. **2000b:00017**
  Gelfand Mathematical ★ The Gelfand Mathematical Seminars, 1996–1999. **2000h:00016**
Session:
  Dedicated to the Centenary of the Birth of Nikola Obreshkoff ★ {Session Dedicated to the Centenary of the Birth of Nikola Obreshkoff}. **2000m:00052**
  Dedicated to the Memory of Yaroslav Tagamlitski ★ {Session Dedicated to the Memory of Yaroslav Tagamlitski}. **2000m:00053**
Sevilla ★ Visions of nonlinear science in the 21st century. Part I. **2000a:00029**
— ★ Visions of nonlinear science in the 21st century. Part II. **2000a:00030**
Sir Michael Atiyah: a great mathematician of the twentieth century ★ Sir Michael Atiyah: a great mathematician of the twentieth century. **2000b:00019**
Sofia ★ {Session Dedicated to the Centenary of the Birth of Nikola Obreshkoff}. **2000m:00052**
— ★ {Session Dedicated to the Memory of Yaroslav Tagamlitski}. **2000m:00053**
Special Issue:
  Average-case analysis of algorithms ★ Average-case analysis of algorithms. **2000g:00079**
  Ball, B. J. ★ Special issue in memory of B. J. Ball. **2000a:00028**
  Begehr, Heinrich G. W. ★ Begehr special issue. **2000j:00034**
  Comfort, William Wistar ★ Special issue in honor of W. W. Comfort. **2000e:00030**
  Dedicated to the memory of Claude Chevalley ★ Dedicated to the memory of Claude Chevalley.
  Designs and codes—a memorial tribute to Ed Assmus ★ Designs and codes—a memorial tribute to Ed Assmus.
  Lambda-calculus and logic ★ Lambda-calculus and logic.
  Learning in games: a symposium in honor of David Blackwell ★ Learning in games: a symposium in honor of David Blackwell.
  Schneider, Hans ★ Special issue dedicated to Hans Schneider. **2000g:00091**
  Temam, Roger ★ Special issue for R. Temam's 60th birthday.
  Wicke, Howard H. ★ Special issue in honor of Howard H. Wicke.
Superstrings, M, F, S... theory ★ Superstrings, M, F, S... theory.
Symposium:
  Jaeger, François ★ Symposium à la Mémoire de François Jaeger. [Symposium in Memory of François Jaeger] **2000c:00049**
Topics in nonlinear analysis ★ Topics in nonlinear analysis. **2000g:00092**
Toronto, ON ★ The Arnoldfest. **2000j:00030**
Visions of nonlinear science in the 21st century ★ Visions of nonlinear science in the 21st century. Part I. **2000a:00029**
— ★ Visions of nonlinear science in the 21st century. Part II. **2000a:00030**
Warsaw ★ The Infeld Centennial Meeting. **2000j:00033**
Workshop:
  Visions of Nonlinear Science in the 21st Century ★ Visions of nonlinear science in the 21st century. Part I. **2000a:00029**
  — ★ Visions of nonlinear science in the 21st century. Part II. **2000a:00030**

Items with secondary classifications in 00B30

(Arestov, V. V.) *see* **Theory of approximation of functions and operators**
(Astroh, Michael) *see* **Hugh MacColl and the tradition of logic, 2000m:03013**
(Atrio, F.) *see* **Relativity and gravitation in general, 2000k:83003**
(Aumann, Robert J.) *see* **Topics in mathematical economics and game theory, 2000h:91006**
(Bakhturin, Yu. A.) *see* **Algebra, 2000b:00020**
(Banaschewski, Bernhard) *see* **Symposium: Categorical Topology, 2000g:54006**
(Barr, Michael) *see* **Festschrift: Lambek, Joachim, 2000h:18001** *and* **Special Issue: On the occasion of the 60th birthday of Professor Michael Barr**
(Batchelor, Murray T.) *see* **Statistical physics on the eve of the 21st century, 2000c:82002**
(Bel, Lluís) *see* **Relativity and gravitation in general, 2000k:83003**
(Bhawal, Biplab) *see* **Black holes, gravitational radiation and the universe, 2000e:83097**
(Bieri, Hanspeter) *see* **Dedicated to Paul de Faget de Casteljau, 2000e:65002**
(Blum, Lenore) *see* **Selected papers in honor of Manuel Blum, 2000m:68012**
(Blum, Manuel) *see* **Selected papers in honor of Manuel Blum, 2000m:68012**
(Boardman, J. Michael) *see* **Homotopy invariant algebraic structures, 2000e:55002**
(Boolos, George) *see* **Symposium: Boolos, George Stephen, 2000h:03009**
(Borovskikh, Yu. V.) *see* **Exploring stochastic laws, 2000e:60003**
(Bramson, Maury) *see* **Perplexing problems in probability, 2000b:60003**
(Bray, William O.) *see* **Analysis of divergence, 2000j:00016**
(Bruckner, Andy) *see* **Report on the Symposium in Real Analysis, 2000b:00015**
(Brümmer, Guillaume) *see* **Symposium: Categorical Topology, 2000g:54006**
(Caughey, David A.) *see* **Frontiers of computational fluid dynamics, 2000e:76005**
(Chandrasekhar, S.) *see* **From white dwarfs to black holes, 2000c:83004**
(Chern, Shiing Shen) *see* **Symposium: Chern, Shiing Shen, 2000h:00014**
(Chernykh, N. I.) *see* **Theory of approximation of functions and operators**
(Chiarenza, Filippo) *see* **Boundary value problems for elliptic and parabolic operators, 2000m:35001**
(Cobourn, Charles J.) *see* **Special Issue: Stanton, Ralph Gordon**
(Cohen, Robert S.) *see* **Experimental metaphysics, 2000k:81003** *and* **Potentiality, entanglement and passion-at-a-distance, 2000k:81004**
(Cucker, Felipe) *see* **Selected papers in honor of Manuel Blum, 2000m:68012**
(Deĭkalova, M. V.) *see* **Theory of approximation of functions and operators**
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(Dijksma, Aad) *see* **Contributions to operator theory in spaces with an indefinite metric, 2000h:47002**
(Ding, Cun Sheng) *see* **Cryptography, 2000i:94002**
(Dummett, Michael) *see* **Festschrift: Dummett, Michael, 2000h:03005**
(Durrett, Richard) *see* **Perplexing problems in probability, 2000b:60003**
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(Farber, Michael S.) *see* **Conference: Topology, Rothenberg Festschrift, 2000c:57001**
(Freeman, H.) *see* **Studies in pattern recognition, 2000m:68013**
(Frisch, Ragnar A. K.) *see* **Econometrics and economic theory in the 20th century, 2000h:62005**
(Fu, King-Sun) *see* **Studies in pattern recognition, 2000m:68013**
(Fukushima, Masao) *see* **Dedicated to Professor Masao Iri on the occasion of his 65th birthday, 2000k:90002**
(Gabbay, Dov M.) *see* **Logic, language and reasoning, 2000k:03009**
(Gallagher, Richard H.) *see* **Memorial Issue: Gallagher, Richard Hugo**
(Gilmour, C. R. A.) *see* **Symposium: Categorical Topology, 2000g:54006**
(Gohberg, Israel) *see* **Contributions to operator theory in spaces with an indefinite metric, 2000h:47002**
(Golod, E. S.) *see* **Algebra, 2000b:00020**
(Götze, Friedrich) *see* **Limit theorems of probability theory, 2000j:60004**
(Greenberger, Daniel M.) *see* **Invited papers dedicated to Daniel Greenberger, Part 2**
(Győry, Kálmán) *see* **Number theory in progress, 2000b:11004** *and* **2000c:11004**
(Hafez, Mohamed M.) *see* **Frontiers of computational fluid dynamics, 2000e:76005**
(Harant, Jochen) *see* **Graph theory, 2000k:05003**
(Hass, Joel) *see* **Proceedings: Kirbyfest, 2000j:57002**
(Hauser, Herwig) *see* **Resolution of singularities, 2000k:14002**
(Heck, Richard G., Jnr.) *see* **Festschrift: Dummett, Michael, 2000h:03005**
(Hedetniemi, Stephen T.) *see* **Papers in honour of Stephen T. Hedetniemi**
(Herrlich, Horst) *see* **Symposium: Categorical Topology, 2000g:54006**
(Hirzebruch, Friedrich) *see* **Algebraic geometry: Hirzebruch 70, 2000g:14002**
(Horne, Michael) *see* **Experimental metaphysics, 2000k:81003** *and* **Potentiality, entanglement and passion-at-a-distance, 2000k:81004**
(Iri, Masao) *see* **Dedicated to Professor Masao Iri on the occasion of his 65th birthday, 2000k:90002**
(Ivanov, Evgeniĭ Alekseevich[2]) *see* **Supersymmetries and quantum symmetries, 2000j:81008**
(Iwaniec, Henryk) *see* **Number theory in progress, 2000b:11004** *and* **2000c:11004**
(Iyer, Balasubramanian Ramakrishna) *see* **Black holes, gravitational radiation and the universe, 2000e:83097**
(Kaashoek, M. A.) *see* **Contributions to operator theory in spaces with an indefinite metric, 2000h:47002**
(Kesten, Harry) *see* **Perplexing problems in probability, 2000b:60003**
(Kirby, Robion C.) *see* **Proceedings: Kirbyfest, 2000j:57002**
(Korolyuk, Vladimir Semenovich) *see* **Exploring stochastic laws, 2000e:60003**
(Kostrikin, Alekseĭ Ivanovich) *see* **Algebra, 2000b:00020**
(Lambek, Joachim) *see* **Festschrift: Lambek, Joachim, 2000h:18001**
(Langer, Heinz) *see* **Contributions to operator theory in spaces with an indefinite metric, 2000h:47002**
(Lawvere, F. William) *see* **Special Issue: On the occasion of the 60th birthday of Professor Michael Barr**
(Lee, Peng Yee) *see* **Passage to research: readings in mathematics, 2000g:00101**
(Lipman, Joseph) *see* **Resolution of singularities, 2000k:14002**
(Liu, Fon-Che) *see* **Proceedings: Conference on Nonlinear Analysis, 2000m:35004**
(Lück, Wolfgang) *see* **Conference: Topology, Rothenberg Festschrift, 2000c:57001**
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(Mangasarian, Olvi L.) *see* **Computational optimization—a tribute to Olvi Mangasarian, 2000c:90005** *and* **2000c:90006**
(Martín, Jésus) *see* **Relativity and gravitation in general, 2000k:83003**
(McGuire, James B.) *see* **Statistical physics on the eve of the 21st century, 2000c:82002**
(Mennicken, Reinhard) *see* **Contributions to operator theory in spaces with an indefinite metric, 2000h:47002**
(Meyer, Jean-Pierre) *see* **Homotopy invariant algebraic structures, 2000e:55002**
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(Ohlbach, Hans Jürgen) *see* **Logic, language and reasoning, 2000k:03009**
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(Prokhorov, Yurīĭ Vasil′evich) *see* Limit theorems of probability theory, 2000j:60004
(Quirós, A.) *see* Resolution of singularities, 2000k:14002
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(Reyle, Uwe) *see* Logic, language and reasoning, 2000k:03009
(Rothenberg, Melvin G.) *see* Conference: Topology, Rothenberg Festschrift, 2000c:57001
(Rudraiah, N.) *see* Recent advances in fluid mechanics, 2000j:76009
(Ruiz, Eduardo) *see* Relativity and gravitation in general, 2000k:83003
(Sachdev, P. L.) *see* Recent advances in fluid mechanics, 2000j:76009
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(Salomaa, Arto) *see* Cryptography, 2000i:94002
(Scharlemann, Martin) *see* Proceedings: Kirbyfest, 2000j:57002
(Schinzel, Andrzej) *see* Number theory in progress, 2000b:11004 *and* 2000c:11004
(Scott, P. J.) *see* Festschrift: Lambek, Joachim, 2000h:18001
(Seely, R. A. G.) *see* Festschrift: Lambek, Joachim, 2000h:18001 *and* Special Issue: On the occasion of the 60th birthday of Professor Michael Barr
(Shapiro, Stewart) *see* Symposium: Boolos, George Stephen, 2000h:03009
(Shimony, Abner) *see* Experimental metaphysics, 2000k:81003 *and* Potentiality, entanglement and passion-at-a-distance, 2000k:81004
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(Skorokhod, A. V.) *see* Exploring stochastic laws, 2000e:60003
(Slater, Peter J.) *see* Papers in honour of Stephen T. Hedetniemi
(Srinivasan, G.) *see* From white dwarfs to black holes, 2000c:83004
(Stachel, John) *see* Experimental metaphysics, 2000k:81003 *and* Potentiality, entanglement and passion-at-a-distance, 2000k:81004
(Stanojević, Časlav V.) *see* Analysis of divergence, 2000j:00016
(Stanton, Ralph) *see* Special Issue: Stanton, Ralph Gordon
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(Szurek, Michał) *see* Algebraic geometry: Hirzebruch 70, 2000g:14002
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(Trautman, Andrzej Mariusz) *see* Geometry and physics, 2000c:83005
(Tricomi, Francesco G.) *see* Tricomi's ideas and comtemporary applied mathematics, 2000k:00051
(Tsuchiya, Takashi[1]) *see* Dedicated to Professor Masao Iri on the occasion of his 65th birthday, 2000k:90002
(Tymoczko, A. Thomas) *see* Mathematical proof, 2000a:03003
(Urbanowicz, Jerzy) *see* Number theory in progress, 2000b:11004 *and* 2000c:11004
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(Vishveshwara, C. V.) *see* Black holes, gravitational radiation and the universe, 2000e:83097
(Weinberger, Shmuel) *see* Conference: Topology, Rothenberg Festschrift, 2000c:57001
(Wess, Julius) *see* Supersymmetries and quantum symmetries, 2000j:81008
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(Wilson, W. Stephen) *see* Homotopy invariant algebraic structures, 2000e:55002
(Wiśniewski, Jarosław A.) *see* Algebraic geometry: Hirzebruch 70, 2000g:14002
(Wooders, Myrna Holtz) *see* Topics in mathematical economics and game theory, 2000h:91006
(Zariski, Oscar) *see* Resolution of singularities, 2000k:14002

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Algebra ★ Algebra. 11. **2000b:00020**
Algebraic geometry: Hirzebruch 70 ★ Algebraic geometry: Hirzebruch 70. **2000g:14002**
Analysis of divergence ★ Analysis of divergence. **2000j:00016**
Anniversary:
  Birth of Stechkin, Sergeĭ Borisovich ★ Теория приближения функций и операторов. (Russian) [Theory of approximation of functions and operators]
  Birth of Tricomi, Francesco Giacomo ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Baltimore, MD ★ Homotopy invariant algebraic structures. **2000e:55002**
Berkeley, CA ★ The Chern Symposium. 1998. **2000h:00014**
— ★ Proceedings of the Kirbyfest. **2000j:57002**
Biography:
  MacColl, Hugh ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Birthday:
  Barr, Michael ★ Special volume on the occasion of the 60th birthday of Professor Michael Barr.
  Bel, Lluís ★ Relativity and gravitation in general. **2000k:83003**
  Blum, Manuel ★ Selected papers in honor of Manuel Blum. **2000m:68012**
  Boardman, J. Michael ★ Homotopy invariant algebraic structures. **2000e:55002**
  Brümmer, Guillaume C. L. ★ Symposium on Categorical Topology. **2000g:54006**
  Gabbay, Dov M. ★ Logic, language and reasoning. **2000k:03009**
  Greenberger, Daniel M. ★ Invited papers dedicated to Daniel Greenberger. Part II.
  Hirzebruch, Friedrich Ernst Peter ★ Algebraic geometry: Hirzebruch 70. **2000g:14002**
  Iri, Masao ★ Dedicated to Professor Masao Iri on the occasion of his 65th birthday. **2000k:90002**
  Korolyuk, Vladimir Semenovich ★ Exploring stochastic laws. **2000e:60003**
  Lambek, Joachim ★ The Lambek Festschrift. **2000h:18001**
  Langer, Heinz ★ Contributions to operator theory in spaces with an indefinite metric. **2000h:47002**
  Lee, Peng Yee ★ A passage to research: readings in mathematics. **2000g:00101**
  Liu, Fon Che ★ Proceedings of 1999 International Conference on Nonlinear Analysis. **2000m:35004**
  Mangasarian, Olvi L. ★ Computational optimization—a tribute to Olvi Mangasarian. Part I. **2000c:90005**
Birthday: (*cont'd.*)
  — ★ Computational optimization—a tribute to Olvi Mangasarian. Part II. **2000c:90006**
  McGuire, James B. ★ Statistical physics on the eve of the 21st century. **2000c:82002**
  Pfanzagl, Johann ★ {Johann Pfanzagl—on the occasion of his 70th birthday}.
  Rudraiah, N. ★ Recent advances in fluid mechanics. **2000j:76009**
  Sachs, Horst ★ Graph theory. **2000k:05003**
  Salomaa, Arto K. ★ Cryptography. **2000i:94002**
  Schinzel, Andrzej ★ Number theory in progress. Vol. 1. **2000b:11004**
  — ★ Number theory in progress. Vol. 2. **2000c:11004**
  Skordev, Dimitʺr G. ★ Fourth Logical Biennial. **2000b:03010**
  Stanojević, Časlav V. ★ Analysis of divergence. **2000j:00016**
  Statulyavichus, Vitautas Antanovich ★ Limit theorems of probability theory. **2000j:60004**
  Thirring, Walter E. ★ International Symposium on Mathematical and Theoretical Physics. **2000c:00039**
  Trautman, Andrzej Mariusz ★ Geometry and physics. **2000c:83005**
  Vishveshwara, C. V. ★ Black holes, gravitational radiation and the universe. **2000e:83097**
Black holes, gravitational radiation and the universe ★ Black holes, gravitational radiation and the universe. **2000e:83097**
Boston, MA ★ Experimental metaphysics. **2000k:81003**
— ★ Potentiality, entanglement and passion-at-a-distance. **2000k:81004**
Boundary value problems for elliptic and parabolic operators ★ Boundary value problems for elliptic and parabolic operators. **2000m:35001**
Catania ★ Boundary value problems for elliptic and parabolic operators. **2000m:35001**
Colloquium:
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  Graph Theory ★ Graph theory. **2000k:05003**
Computational optimization—a tribute to Olvi Mangasarian ★ Computational optimization—a tribute to Olvi Mangasarian. Part I. **2000c:90005**
— ★ Computational optimization—a tribute to Olvi Mangasarian. Part II. **2000c:90006**
Conference:
  Algebraic Geometry ★ Algebraic geometry: Hirzebruch 70. **2000g:14002**
  Barrfest ★ Special volume on the occasion of the 60th birthday of Professor Michael Barr.
  Boundary Value Problems for Elliptic and Parabolic Operators ★ Boundary value problems for elliptic and parabolic operators. **2000m:35001**
  Homotopy Invariant Algebraic Structures ★ Homotopy invariant algebraic structures. **2000e:55002**
  Hugh MacColl and the Tradition of Logic ★ Hugh MacColl and the tradition of logic. **2000m:03013**
  New Directions in the Theory of Markets and Games ★ Topics in mathematical economics and game theory. **2000h:91006**
  Nonlinear Analysis ★ Proceedings of 1999 International Conference on Nonlinear Analysis. **2000m:35004**
  Number Theory ★ Number theory in progress. Vol. 1. **2000b:11004**
  — ★ Number theory in progress. Vol. 2. **2000c:11004**
  Statulevičius, Vytautas ★ Limit theorems of probability theory. **2000j:60004**
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Analysis and its Applications ★ Analysis of divergence. **2000j:00016**
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— ★ Number theory in progress. Vol. 2. **2000c:11004**

00B50 Volumes of selected translations

(Karasev, Mikhail) *see* **Coherent transform, quantization, and Poisson geometry, 2000g:00093**

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American Mathematical Society Translations, Series 2 ★ Coherent transform, quantization, and Poisson geometry. **2000g:00093**
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— ★ Sugaku Expositions. **2000g:00095**

— ★ Sugaku Expositions. **2000m:00054**

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Beklemishev, L. D. (*with* Pentus, Mati; Vereshchagin, Nikolai K.) ★ Provability, complexity, grammars. **2000g:68002**
Pentus, Mati *see* **Beklemishev, L. D. et al., 2000g:68002**
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00B55 Miscellaneous volumes of translations

(Bakhturin, Yu. A.) *see* **Algebra, 2000b:00020**
(Golod, E. S.) *see* **Algebra, 2000b:00020**
(Golubeva, V. A.) *see* **Functional analysis, 2000g:00097**
(Il'ina, G. V.) *see* **Functional analysis, 2000h:00017**
(Izmailova, Z. A.) *see* **Dynamical systems, 2000a:00031**
(Izmailova, Z. I.) *see* **Geometry, 2000c:00052** *and* **Dynamical systems, 2000e:00031**
(Khelemskiĭ, A. Ya.) *see* **Functional analysis, 2000g:00097** *and* **2000m:00056**
(Kostrikin, Alekseĭ Ivanovich) *see* **Algebra, 2000b:00020**
(Ladyzhenskaya, O. A.) *see* **Proceedings: St. Petersburg Mathematical Society, 2000g:00099**
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(Shipshina, A. G.) *see* **Algebraic geometry, 2000c:00051** *and* **Algebra, 2000j:00036**
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Algebra ★ Algebra. 11. **2000b:00020**
— ★ Algebra. 8. **2000c:00050**
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Kostrikin, Alekseĭ Ivanovich ★ Algebra. 11. **2000b:00020**
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Geometry ★ Geometry. 4. **2000c:00052**
Numerical methods and a numerical experiment ★ Numerical methods and a numerical experiment. **2000k:00054**
Numerical methods in mathematical physics ★ Numerical methods in mathematical physics. **2000d:00021**
Problems of mathematical physics ★ Problems of mathematical physics. **2000g:00098**
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(Golod, E. S.) *see* **Algebraic geometry, 2000c:00042**
(Iskovskikh, Vasiliĭ Alekseevich) *see* **Algebraic geometry, 2000c:00042**
(Sakharova, V. P.) *see* **Algebra, 2000c:16001**

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00B60 Collections of reprinted articles [see also 01A75]

(Lee, Peng Yee) *see* **Passage to research: readings in mathematics, 2000g:00101**
(Saari, Donald G.) *see* **Commemorating the development of mathematics in the last century, 2000g:00100**
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Birthday:
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Selection of the most cited papers in Fuzzy Sets and Systems ★ A selection of the most cited papers in Fuzzy Sets and Systems. **2000g:00102**
Special Issue:
Commemorating the development of mathematics in the last century ★ Commemorating the development of mathematics in the last century. **2000g:00100**
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(Armstrong, A. F. W.) *see* **Rashed, Roshdi, 2000b:01033**
(Chester, Conrad) *see* **Wigner, Eugene Paul, 2000g:01045**
(Cohen, Robert S.) *see* **Rashed, Roshdi, 2000b:01033**
(Dlab, Vlastimil) *see* **Canadian Mathematical Society, 2000a:01038**
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(Khalatnikov, Isaak M.) *see* **30 years of the Landau Institute, 2000b:01034**
Mancosu, Paolo ★ From Brouwer to Hilbert. (English summary) **2000j:01122**
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Rashed, Roshdi ★ The development of Arabic mathematics: between arithmetic and algebra. (English summary) **2000b:01033**
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Collected Works:
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01–XX History and biography [see also the classification number –03 in the other sections]

01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Böttcher, M.) *see* **Materials on the evolution of the mathematical professions**
(Burley, Walter) *see* **Krieger, Gerhard, (2000j:01016)**
(Gross, H. E.) *see* **Materials on the evolution of the mathematical professions**
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Krieger, Gerhard Studies on Walter Burley 1989–1997. (*see* **2000j:01016**)
Stange, Thomas Auswahlbibliographie zur Geschichte von Mathematik, Naturwissenschaften und Technik sowie zur Wissenschafts- und Hochschulpolitik in der DDR. (German. German summary) [Selective bibliography on the history of mathematics, natural sciences and technology, and on the politics of science and academe in the GDR] (*see* **2000g:01048**)

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01–01 Instructional exposition (textbooks, tutorial papers, etc.)

Cooke, Roger L. ★ The history of mathematics. (English summary) **2000g:01001**
Meunier, Pierre ★ Cours de mathématiques. (French. French summary) [Mathematics course]
Ruiz Zúñiga, Ángel ★ Geometrías no euclidianas. (Spanish. Spanish summary) [Non-Euclidean geometries] **2000h:01001**

Items with secondary classifications in 01–01

(Bellos, David) *see* **Ifrah, Georges, 2000j:01006**
Bruno, Leonard C. ★ Math and mathematicians: the history of math discoveries around the world. Vol. 1, A–H; Vol. 2, I–Z. (English summary) **2000j:01005**
Hahn, Alexander J. ★ Basic calculus.
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(Monk, Ian) *see* **Ifrah, Georges, 2000j:01006**
Stahl, Saul ★ Real analysis: a historical approach. (English summary) **2000d:26001**
(Wood, Sophie) *see* **Ifrah, Georges, 2000j:01006**

01–02 Research exposition (monographs, survey articles)

Epple, Moritz ★ Die Entstehung der Knotentheorie. (German. German summary) [The genesis of knot theory] **2000i:01001**

Items with secondary classifications in 01–02

Torr, Douglas G. *see* **Vargas, Jose G., 2000e:83002**
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01–06 Proceedings, conferences, collections, etc.

(Ames-Lewis, Francis) *see* **Sir Thomas Gresham and Gresham College, 2000m:01003**
(Ariew, Roger) *see* **Leibniz and the sciences, 2000a:01001**
(Brentjes, Sonja) *see* **Crossing boundaries, 2000k:01001**
(Chemla, Karine) *see* **Arrange in order to state, position in order to think, locate in order to act, 2000j:01001** *and* **Value of the example, 2000j:01002**
(Garber, Daniel) *see* **Leibniz and the sciences, 2000a:01001**
(Gissis, Snait) *see* **Crossing boundaries, 2000k:01001**
(Gray, Jeremy J.) *see* **Symbolic universe, 2000m:01004**
(Gresham, Thomas) *see* **Sir Thomas Gresham and Gresham College, 2000m:01003**
(Hashimoto, Keizô) *see* **East Asian science: tradition and beyond, 2000i:01002**
(Hobbes, Thomas) *see* **Cambridge companion to Hobbes, 2000m:01001**
(Jami, Catherine) *see* **East Asian science: tradition and beyond, 2000i:01002**
(Lackner, Michael) *see* **Arrange in order to state, position in order to think, locate in order to act, 2000j:01001**
(Moretti, Walter) *see* **Torquato Tasso and the University, 2000k:01002**
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(Roero, Clara Silvia) *see* **Geometry, fluxions and differentials, 2000j:01003**
(Serfati, Michel) *see* **Search for truth, 2000m:01002**
(Skar, Lowell) *see* **East Asian science: tradition and beyond, 2000i:01002**
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(Tasso, Torquato) *see* **Torquato Tasso and the University, 2000k:01002**
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  Gresham, Thomas ★ Sir Thomas Gresham and Gresham College. **2000m:01003**
  Hobbes, Thomas ★ The Cambridge companion to Hobbes. **2000m:01001**
Cambridge companion to Hobbes ★ The Cambridge companion to Hobbes. **2000m:01001**
Colloquium:
  History of Arab Mathematics ★ Histoire des mathématiques arabes. Vol. 1. (Arabic) [History of Arab mathematics. Vol. 1] **2000e:01001**
  — ★ Histoire des mathématiques arabes. Vol. 2. (French) [History of Arab mathematics. Vol. 2] **2000e:01002**
Conference:
  History of Science in East Asia ★ East Asian science: tradition and beyond. **2000i:01002**
  Symbolic Universe ★ The symbolic universe. **2000m:01004**
  Torquato Tasso and the University ★ Torquato Tasso e l'Università. (Italian) [Torquato Tasso and the University] **2000k:01002**
Crossing boundaries ★ Crossing boundaries. **2000k:01001**
Disposer pour dire, placer pour penser, situer pour agir ★ Disposer pour dire, placer pour penser, situer pour agir. (French) [Arrange in order to state, position in order to think, locate in order to act] **2000j:01001**
East Asian science: tradition and beyond ★ East Asian science: tradition and beyond. **2000i:01002**
Ferrara ★ Torquato Tasso e l'Università. (Italian) [Torquato Tasso and the University] **2000k:01002**
Geometry, fluxions and differentials ★ Geometria, flussioni e differenziali. (Italian) [Geometry, fluxions and differentials] **2000j:01003**
Histoire des mathématiques arabes ★ Histoire des mathématiques arabes. Vol. 1. (Arabic) [History of Arab mathematics. Vol. 1] **2000e:01001**
— ★ Histoire des mathématiques arabes. Vol. 2. (French) [History of Arab mathematics. Vol. 2] **2000e:01002**
History of Arab mathematics ★ Histoire des mathématiques arabes. Vol. 1. (Arabic) [History of Arab mathematics. Vol. 1] **2000e:01001**
— ★ Histoire des mathématiques arabes. Vol. 2. (French) [History of Arab mathematics. Vol. 2] **2000e:01002**
Jan de Witt—mathematician and statesman ★ Jan de Witt—Wiskundige en Staatsman. (Dutch) [Jan de Witt—mathematician and statesman] **2000j:01004**
Kyoto ★ East Asian science: tradition and beyond. **2000i:01002**
Leibniz and the sciences ★ Leibniz and the sciences. **2000a:01001**
Międzyzdroje ★ X Szkoła Historii Matematyki. (Polish) [X School of the History of Mathematics] **2000i:01003**
Milton Keynes ★ The symbolic universe. **2000m:01004**
Recherche de la vérité ★ La recherche de la vérité. (French) [The search for truth] **2000m:01002**
School:
  History of Mathematics ★ X Szkoła Historii Matematyki. (Polish) [X School of the History of Mathematics] **2000i:01003**
Scientific revolution ★ The scientific revolution. (Greek) **2000g:01002**
Search for truth ★ La recherche de la vérité. (French) [The search for truth] **2000m:01002**
Sir Thomas Gresham and Gresham College ★ Sir Thomas Gresham and Gresham College. **2000m:01003**
Special Issue:
  Leibniz and the sciences ★ Leibniz and the sciences. **2000a:01001**
  Scientific revolution ★ The scientific revolution. (Greek) **2000g:01002**
Studies on the history of mathematics ★ Sūgaku shiki no kenkyū. (Japanese) [Studies on the history of mathematics] **2000a:01002**
Symbolic universe ★ The symbolic universe. **2000m:01004**
Symposium:
  Studies on the History of Mathematics ★ Sūgaku shiki no kenkyū. (Japanese) [Studies on the history of mathematics] **2000a:01002**
Tipaza ★ Histoire des mathématiques arabes. Vol. 1. (Arabic) [History of Arab mathematics. Vol. 1] **2000e:01001**
— ★ Histoire des mathématiques arabes. Vol. 2. (French) [History of Arab mathematics. Vol. 2] **2000e:01002**
Torquato Tasso and the University ★ Torquato Tasso e l'Università. (Italian) [Torquato Tasso and the University] **2000k:01002**
Valeur de l'exemple ★ La valeur de l'exemple. (French) [The value of the example] **2000j:01002**
Value of the example ★ La valeur de l'exemple. (French) [The value of the example] **2000j:01002**
Wageningen ★ Jan de Witt—Wiskundige en Staatsman. (Dutch) [Jan de Witt—mathematician and statesman] **2000j:01004**
Working Group:
  History of the Function of Mathematics in Society ★ Jan de Witt—Wiskundige en Staatsman. (Dutch) [Jan de Witt—mathematician and statesman] **2000j:01004**

Items with secondary classifications in 01–06

(Albis González, Víctor Samuel) *see* **Proceedings: Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes, 2000g:00068**
(Astroh, Michael) *see* **Hugh MacColl and the tradition of logic, 2000m:03013**
(Bass, Hyman) *see* **Algebra, K-theory, groups, and education, 2000h:00015**
(Burley, Walter) *see* **Walter Burley, 2000j:01016**
(Charum, Jorge) *see* **Proceedings: Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes, 2000g:00068**
(Curzi, Valter) *see* **Between art and science: Piero della Francesca, 2000g:01017**
(Dalai Emiliani, Marisa) *see* **Between art and science: Piero della Francesca, 2000g:01017**

(Descartes, René) *see* **Proceedings: Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes, 2000g:00068**
(Eisenbud, David) *see* **Commutative algebra, algebraic geometry, and computational methods, 2000e:13001**
(della Francesca, Piero) *see* **Between art and science: Piero della Francesca, 2000g:01017**
(Hintikka, Jaakko) *see* **From Dedekind to Gödel, 2000k:03008**
(Hoffmann, Dieter) *see* **Science and technology in the DDR, 2000g:01048**
(Klein, Felix) *see* **Eightfold way, 2000f:14001**
(Köhler, Eckehart) *see* **Alfred Tarski and the Vienna Circle, 2000k:03006**
(Lam, Tsit-Yuen) *see* **Algebra, K-theory, groups, and education, 2000h:00015**
(Levy, Silvio) *see* **Eightfold way, 2000f:14001**
(MacColl, Hugh) *see* **Hugh MacColl and the tradition of logic, 2000m:03013**
(Macrakis, Kristie) *see* **Science and technology in the DDR, 2000g:01048**
(Magid, Andy R.) *see* **Algebra, K-theory, groups, and education, 2000h:00015**
(Read, Stephen) *see* **Hugh MacColl and the tradition of logic, 2000m:03013**
(Ruiz Zúñiga, Ángel) *see* **History of mathematics in Costa Rica, 2000j:01115**
(Sánchez, Clara Helena) *see* **Proceedings: Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes, 2000g:00068**
(Serrano, Gonzalo) *see* **Proceedings: Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes, 2000g:00068**
(Tarski, Alfred) *see* **Alfred Tarski and the Vienna Circle, 2000k:03006**
(Tricomi, Francesco G.) *see* **Tricomi's ideas and comtemporary applied mathematics, 2000k:00051**
(Woleński, Jan) *see* **Alfred Tarski and the Vienna Circle, 2000k:03006**

Items listed otherwise than by author

Alfred Tarski and the Vienna Circle ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Algebra, K-theory, groups, and education ★ Algebra, K-theory, groups, and education. **2000h:00015**
Anniversary:
Birth of Descartes, René ★ Memorias del Seminario en Conmemoración de los 400 Años del Nacimiento de René Descartes. (Spanish) [Proceedings of the Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes] **2000g:00068**
Birth of Tricomi, Francesco Giacomo ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Arezzo ★ Piero della Francesca tra arte e scienza. (Italian) [Between art and science: Piero della Francesca] **2000g:01017**
Between art and science: Piero della Francesca ★ Piero della Francesca tra arte e scienza. (Italian) [Between art and science: Piero della Francesca] **2000g:01017**
Biography:
Burley, Walter ★ {Walter Burley}. **2000j:01016**
MacColl, Hugh ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Birthday:
Bass, Hyman ★ Algebra, K-theory, groups, and education. **2000h:00015**
Bogotá ★ Memorias del Seminario en Conmemoración de los 400 Años del Nacimiento de René Descartes. (Spanish) [Proceedings of the Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes] **2000g:00068**
Boston, MA ★ From Dedekind to Gödel. (English summary) **2000k:03008**
Commutative algebra, algebraic geometry, and computational methods ★ Commutative algebra, algebraic geometry, and computational methods. **2000e:13001**
Conference:
Alfred Tarski and the Vienna Circle ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Algebra, K-theory, Groups, and Education ★ Algebra, K-theory, groups, and education. **2000h:00015**
Algebraic Geometry, Commutative Algebra, and Computation ★ Commutative algebra, algebraic geometry, and computational methods. **2000e:13001**
Hugh MacColl and the Tradition of Logic ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Tricomi's Ideas and Contemporary Applied Mathematics ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Contemporary Mathematics ★ Algebra, K-theory, groups, and education. **2000h:00015**
Eightfold way ★ *The eightfold way*. **2000f:14001**
Festschrift:
Bass, Hyman ★ Algebra, K-theory, groups, and education. **2000h:00015**
From Dedekind to Gödel ★ From Dedekind to Gödel. (English summary) **2000k:03008**
Greifswald ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Hanoi ★ Commutative algebra, algebraic geometry, and computational methods. **2000e:13001**
History of mathematics in Costa Rica ★ Historia de las matemáticas en Costa Rica. (Spanish) [The history of mathematics in Costa Rica] **2000j:01115**
Hugh MacColl and the tradition of logic ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Meeting:
Piero between Art and Science ★ Piero della Francesca tra arte e scienza. (Italian) [Between art and science: Piero della Francesca] **2000g:01017**
Naturwissenschaft und Technik in der DDR ★ Naturwissenschaft und Technik in der DDR. (German) [Science and technology in the GDR] **2000g:01048**
New York ★ Algebra, K-theory, groups, and education. **2000h:00015**
Proceedings:
Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes ★ Memorias del Seminario en Conmemoración de los 400 Años del Nacimiento de René Descartes. (Spanish) [Proceedings of the Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes] **2000g:00068**
Rome ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Sansepolcro ★ Piero della Francesca tra arte e scienza. (Italian) [Between art and science: Piero della Francesca] **2000g:01017**
Science and technology in the DDR ★ Naturwissenschaft und Technik in der DDR. (German) [Science and technology in the GDR] **2000g:01048**
Selections from MSRI's video archive ★ Selections from MSRI's video archive. Vol. 1. **2000a:01034**
Seminar:
Anniversary of the Birth of René Descartes ★ Memorias del Seminario en Conmemoración de los 400 Años del Nacimiento de René Descartes. (Spanish) [Proceedings of the Seminar in Commemoration of the 400th Anniversary of the Birth of René Descartes] **2000g:00068**
Tricomi's ideas and comtemporary applied mathematics ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Turin ★ Tricomi's ideas and contemporary applied mathematics. **2000k:00051**
Vienna ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Walter Burley ★ {Walter Burley}. **2000j:01016**

01Axx History of mathematics and mathematicians

01A05 General histories, source books

Abgrall, Philippe La recherche des traditions mathématiques, de l'antiquité hellénistique a l'âge classique en Europe. (English, French and Arabic summaries) [The search for mathematical traditions, from Hellenistic antiquity to the Classical Age in Europe] **2000i:01004**
Alberts, Gerard (*with* Atzema, Eisso; van Maanen, Jan) Mathematics in the Netherlands: a brief survey with an emphasis on the relation to physics, 1560–1960. (*see* **2000g:01006**)
Atzema, Eisso *see* **Alberts, Gerard et al.**, (**2000g:01006**)
Ausejo, Elena (*with* Hormigón, Mariano) The history of mathematics in Spain.
Barbin, Évelyne (*with* Borowczyk, Jacques; Chabert, Jean-Luc; Guillemot, Michel; Michel-Pajus, Anne) ★ A history of algorithms. (English summary) **2000g:01003**
Barrantes Campos, Hugo *see* **Ruiz Zúñiga, Ángel**
Bashmakova, I. G. (*with* Smirnova, G. S.) The origin and development of algebra. (Russian) **2000e:01003**
— (*with* Smirnova, G. S.) ★ The beginnings and evolution of algebra. **2000h:01002**
Bell, John L. ★ The art of the intelligible. (English summary) **2000k:01003**
(Bellos, David) *see* **Ifrah, Georges, 2000j:01006**
(Benvenuto, Edoardo) *see* **Between mechanics and architecture, 2000m:01007**
van Berkel, Klaas The legacy of Stevin. A chronological narrative. (*see* **2000g:01006**)
— *see also* **History of science in the Netherlands, 2000g:01006**
Borowczyk, Jacques *see* **Barbin, Évelyne et al., 2000g:01003**
Bruno, Leonard C. ★ Math and mathematicians: the history of math discoveries around the world. Vol. 1, A–H; Vol. 2, I–Z. (English summary) **2000j:01005**
Buldt, Bernd Supervaluvagefuzzysoritalhistorisch, oder: Ein kurzer Bericht der langen Geschichte, wie die Vagheit auf den Begriff und unter die Formel kam. [Supervalue-fuzzysoritalhistorically, or: A short report on the long story, of how vagueness became a concept and under the realm of formulas] **2000k:01004**
Chabert, Jean-Luc *see* **Barbin, Évelyne et al., 2000g:01003**
Chemla, Karine Algebraic equations east and west until the Middle Ages. (*see* **2000i:01002**)
(Cox, David A.) *see* **Bashmakova, I. G., 2000h:01002**
Demidov, S. S. *see* **Petrova, S. S., 2000c:01002**
(Descartes, René) *see* **Serfati, Michel, 2000e:01006**
(Diophantus of Alexandria) *see* **Schappacher, Norbert, 2000d:01004**
Dorofeeva, A. V. (*with* Tikhomirov, Vladimir M.) The history of extremal problems and the prehistory of functional analysis. (Russian) **2000c:01001**
Garber, Elizabeth ★ The language of physics. (English summary) **2000h:01003**
Grattan-Guinness, Ivor ★ The Norton history of the mathematical sciences. (English summary) **2000d:01001**
Guillemot, Michel *see* **Barbin, Évelyne et al., 2000g:01003**
Gullberg, Jan ★ Mathematics: from the birth of numbers. (English summary) **2000b:01001**
(Harding, E. F.) *see* **Ifrah, Georges, 2000j:01006**
Heilbron, J. L. ★ Geometry civilized. (English summary) **2000d:01002**
(van Helden, Albert) *see* **History of science in the Netherlands, 2000g:01006**;**van Berkel, Klaas, 2000g:01006** *and* **(2000g:01006)**
(Hilton, Peter) *see* **Gullberg, Jan, 2000b:01001**
Hormigón, Mariano *see* **Ausejo, Elena**
Ifrah, Georges ★ The universal history of numbers. **2000j:01006**
Ineichen, Robert Zufall und Wahrscheinlichkeit—einst ganz getrennt, jetzt eng verbunden. (German summary) [Chance and probability—once completely separated, now closely connected] **2000i:01005**
Kuzicheva, Z. A. The origin and development of mathematical logic. (Russian) **2000e:01004**
Kvasz, Ladislav On classification of scientific revolutions. (English summary) **2000d:01003**
— Changes of language in the development of mathematics. (English summary) **2000k:01005**
Lin, Yi[3] Introduction: discontinuity—a weakness of calculus and beginning of a new era. (English summary) (*see* **2000g:00035**)
van Maanen, Jan *see* **Alberts, Gerard et al.**, (**2000g:01006**)
Mawhin, Jean Au carrefour des mathématiques, de la nature, de l'art et de l'ésotérisme: le nombre d'or. [At the crossroads of mathematics, nature, art and esotericism: the golden mean] **2000g:01004**
Michel-Pajus, Anne *see* **Barbin, Évelyne et al., 2000g:01003**
(Monk, Ian) *see* **Ifrah, Georges, 2000j:01006**
Moreno-Armella, Luis The parallel postulate. (Spanish. English and Spanish summaries) **2000h:01004**
Nahin, Paul J. ★ An imaginary tale: the story of $\sqrt{-1}$. (English summary) **2000a:01003**
Nápoles Valdés, Juan E. The historical legacy of ordinary differential equations. (Spanish. English and Spanish summaries) **2000j:01007**
North, John ★ The Norton history of astronomy and cosmology. (English summary) **2000e:01005**
(Palm, Lodewijk) *see* **History of science in the Netherlands, 2000g:01006**
Petrova, S. S. (*with* Demidov, S. S.) Development of mathematical analysis. (Russian) **2000c:01002**

(Radelet-de Grave, Patricia) *see* **Between mechanics and architecture, 2000m:01007**
Ruiz Zúñiga, Ángel (*with* Barrantes Campos, Hugo) ★ Elementos de cálculo diferencial. (Spanish) [Elements of differential calculus]
Sakarovitch, Joël ★ Épures d'architecture. (French. French summary) [Architectural diagrams] **2000i:01006**
Schappacher, Norbert "Wer war Diophant?". ["Who was Diophantus?"] **2000d:01004**
Serfati, Michel "Pour Descartes": mathématiques et physique cartésiennes. Introduction. ["For Descartes": Cartesian mathematics and physics. Introduction] **2000e:01006**
— "La recherche de la vérité": introduction. ["The search for truth": introduction] (*see* **2000m:01002**)
Sesiano, Jacques ★ Une introduction à l'histoire de l'algèbre. (French. French summary) [An introduction to the history of algebra] **2000e:01007**
(Shenitzer, Abe) *see* **Bashmakova, I. G., 2000h:01002**
Smirnova, G. S. *see* **Bashmakova, I. G., 2000e:01003** *and* **2000h:01002**
Stillwell, John Exceptional objects. **2000e:01008**
(Swetz, Frank J.) *see* **From five fingers to infinity, 2000j:01008**
Tejumọla, Haroon Ọladipọ Behind the closed door(s). (*see* **2000m:00048**)
Tikhomirov, Vladimir M. *see* **Dorofeeva, A. V., 2000c:01001**
Tisza, Laszlo The reasonable effectiveness of mathematics in the natural sciences. (*see* **2000k:81003**)
Webb, Judson Tracking contradictions in geometry: the idea of a model from Kant to Hilbert. **2000m:01005**
(Weeks, Chris) *see* **Barbin, Évelyne et al., 2000g:01003**
Wilson, Alistair Macintosh ★ The infinite in the finite. (English summary) **2000m:01006**
(Wood, Sophie) *see* **Ifrah, Georges, 2000j:01006**
Zebrowski, Ernest, Jr. ★ A history of the circle. (English summary) **2000g:01005**

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Between mechanics and architecture ★ Entre mécanique et architecture/Between mechanics and architecture. **2000m:01007**
Entre mécanique et architecture ★ Entre mécanique et architecture/Between mechanics and architecture. **2000m:01007**
From five fingers to infinity ★ From five fingers to infinity. **2000j:01008**
History of science in the Netherlands ★ A history of science in the Netherlands. **2000g:01006**

Items with secondary classifications in 01A05

Acheson, David ★ Vom Calculus zum Chaos. (German. German summary) [From calculus to chaos] **2000g:70001**
(Bayes, Thomas) *see* **Dale, Andrew I., 2000e:60002**
Beato Sirvent, Jesús Fermat's last theorem. Diary of a conquest. (Spanish. Spanish summary) **2000m:11001**
Berggren, Lennart (*with* Borwein, Jonathan M.; Borwein, P. B.) ★ Pi: a source book. (English summary) **2000k:11001**
Borwein, Jonathan M. *see* **Berggren, Lennart et al., 2000k:11001**
Borwein, P. B. *see* **Berggren, Lennart et al., 2000k:11001**
Cooke, Roger L. ★ The history of mathematics. (English summary) **2000g:01001**
Dale, Andrew I. ★ A history of inverse probability. (English summary) **2000e:60002**
Garrett, Anthony J. M. The history of probability theory. (English summary) **2000a:60002**
Guedj, Denis ★ Le théorème du perroquet. (French. French summary) [The parrot theorem] **2000k:00006**
Ha, Byung-Hak ★ Das Verhältnis der Mathesis universalis zur Logik als Wissenschaftstheorie bei E. Husserl. (German. German summary) [The relationship of mathesis universalis to logic as theory of science in the works of E. Husserl] **2000h:00005**
Hilbert, David[1] Mathematical problems.
(Hildebrandt, Stefan) *see* **Osserman, Robert, 2000j:00011**
(Husserl, Edmund) *see* **Ha, Byung-Hak, 2000h:00005**
Ivanenko, N. L. (*with* Mazorchuk, Vladimir) Fermat's last theorem. (Ukrainian) **2000k:11044**
Klee, Victor (*with* Wagon, Stan) ★ Alte und neue ungelöste Probleme in der Zahlentheorie und Geometrie der Ebene. (German. German summary) [Old and new unsolved problems in plane geometry and number theory] **2000c:00003**
Mazorchuk, Vladimir *see* **Ivanenko, N. L., 2000k:11044**
McPherson, Leslie Margaret Perrin Scientific theories that unconceal being: intentions and conceptions in their genesis. (*see* **2000c:00045**)
(Newson, Mary Frances Winston) *see* **Hilbert, David[1]**
Omnès, Roland ★ Quantum philosophy. (English summary) **2000h:81014**
Osserman, Robert ★ Geometrie des Universums. (German. German summary) [Poetry of the Universe] **2000j:00011**
Page, Carl Symbolic mathematics and the intellect militant: on modern philosophy's revolutionary spirit. **2000i:00013**
(Pearson, Karl) *see* **Dale, Andrew I., 2000e:60002**
(Sangalli, Arturo) *see* **Omnès, Roland, 2000h:81014**
(Sengerling, Rainer) *see* **Osserman, Robert, 2000j:00011**
(Stern, Manfred) *see* **Klee, Victor, 2000c:00003**
Volkert, Klaus Die Lehre vom Flächeninhalt ebener Polygone: einige Schritte in der Mathematisierung eines anschaulichen Konzeptes. (German summary) [The theory of the surface area of plane polygons: some steps in the mathematization of a graphic concept] **2000e:52005**
Wagon, Stan *see* **Klee, Victor, 2000c:00003**
Zienkiewicz, O. C. Achievements and some unsolved problems of the finite element method. (English summary) **2000m:65002**

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Biography:
Bayes, Thomas *see* **Dale, Andrew I., 2000e:60002**
Summer course 1999: unproven conjectures ★ Vakantiecursus 1999: onbewezen vermoedens. (Dutch) [Summer course 1999: unproven conjectures] **2000g:00040**

01A07 Ethnomathematics, general

Cauty, André L'ethnoéducation en Colombie. [Ethnoeducation in Colombia] **2000c:01003**
D'Ambrosio, Ubiratan The history of mathematics and ethnomathematics. How a native culture intervenes in the process of learning science. (English summary)
Gerdes, Paulus ★ Geometry from Africa: mathematical and educational explorations. (English summary) **2000e:01009**
(Powell, Arthur B.) *see* **Gerdes, Paulus, 2000e:01009**

Items with secondary classifications in 01A07

Rodríguez Arce, Pedro Pre-Columbian ethnomathematics. (Spanish) (*see* **2000j:01115**)
Schuppener, Georg ★ Germanische Zahlwörter. (German) [Germanic words for numbers]

01A12 Indigenous cultures of the Americas

(Llanos, Primitivo Nina) *see* **Urton, Gary, 2000h:01005**
Rodríguez Arce, Pedro Pre-Columbian ethnomathematics. (Spanish) (*see* **2000j:01115**)
Urton, Gary ★ The social life of numbers. (English summary) **2000h:01005**

Items with secondary classifications in 01A12

Cauty, André L'ethnoéducation en Colombie. [Ethnoeducation in Colombia] **2000c:01003**

01A13 Other indigenous cultures (non-European)

Kak, Subhash The solar numbers in Angkor Wat. (English summary)

Items with secondary classifications in 01A13

Gerdes, Paulus ★ Geometry from Africa: mathematical and educational explorations. (English summary) **2000e:01009**
Pettersson, J. S. Indus numerals on metal tools. (English summary) **2000d:01009**
(Powell, Arthur B.) *see* **Gerdes, Paulus, 2000e:01009**

01A15 Indigenous European cultures (pre-Greek, etc.)

Items with secondary classifications in 01A15

Schuppener, Georg ★ Germanische Zahlwörter. (German) [Germanic words for numbers]

01A16 Egyptian

Clagett, Marshall ★ Ancient Egyptian science: a source book. Vol. 3. **2000j:01009**
Guillemot, Michel Les méthodes de simple fausse position dans les mathématiques égyptiennes et les mathématiques arabes. (French summary) [The methods of simple false position in Egyptian and Arab mathematics] **2000k:01006**

Items with secondary classifications in 01A16

Biss, Daniel K. A lower bound on the number of functions satisfying the strict avalanche criterion. (English summary) **2000e:94036**

01A17 Babylonian

Brack-Bernsen, Lis (*with* Hunger, Hermann) The Babylonian zodiac: speculations on its invention and significance.
Britton, John P. (*with* Jones, Alexander) A new Babylonian planetary model in a Greek source.
Hunger, Hermann *see* **Brack-Bernsen, Lis**
Jones, Alexander *see* **Britton, John P.**
Muroi, Kazuo Babylonian mathematics—ancient mathematics written in cuneiform writing. (Japanese) (*see* **2000a:01002**)
Swerdlow, N. M. Acronychal risings in Babylonian planetary theory. **2000f:01001**

01A20 Greek, Roman

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01A73 Universities

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Hajnal, András (*with* Hamburger, Péter) ★ Set theory. (English summary) **2000m:03001**
Hamburger, Péter *see* **Hajnal, András, 2000m:03001**
Henle, James M. *see* **Tymoczko, A. Thomas**
Hrbacek, Karel (*with* Jech, Thomas) ★ Introduction to set theory. **2000c:03001**
Jech, Thomas *see* **Hrbacek, Karel, 2000c:03001**
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Likhtarnikov, L. M. (*with* Sukacheva, T. G.) ★ Математическая логика. (Russian. Russian summary) [Mathematical logic] **2000k:03001**
Manzano, María ★ Model theory. **2000f:03001**
(Máté, Attila) *see* **Hajnal, András, 2000m:03001**
(Mosterín, Jesús) *see* **Manzano, María, 2000f:03001**
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Reghiş, Mircea (*with* Roventa, Eugene) ★ Classical and fuzzy concepts in mathematical logic and applications. (English summary) **2000j:03001**
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Zalabardo, José L. ★ Introduction to the theory of logic. (English summary) **2000j:03002**

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Bloch, Ethan D. ★ Proofs and fundamentals. (English summary) **2000m:00001**
(Frege, Gottlob) *see* **Alnes, Jan Harald, 2000g:03006**
Nabebin, A. A. ★ Логика и Пролог в дискретной математике. (Russian. Russian summary) [Logic and Prolog in discrete mathematics]
Schechter, Eric ★ Handbook of analysis and its foundations. **2000i:00007**
Villaveces, Andrés $\aleph_\omega$ from aleph to omega. (Spanish. English and Spanish summaries) **2000d:03102**

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Handbook:
Analysis and its foundations *see* **Schechter, Eric, 2000i:00007**

03–02 Research exposition (monographs, survey articles)

Ebbinghaus, Heinz-Dieter (*with* Flum, Jörg) ★ Finite model theory. (English summary) **2000m:03002a**
— (*with* Flum, Jörg) ★ Finite model theory. (English summary) **2000m:03002b**
Flum, Jörg *see* **Ebbinghaus, Heinz-Dieter, 2000m:03002a** *and* **2000m:03002b**
Hájek, Petr[1] (*with* Pudlák, Pavel) ★ Metamathematics of first-order arithmetic. **2000m:03003**
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Gasarch, William I. (*with* Martin, Georgia A.) ★ Bounded queries in recursion theory. (English summary) **2000m:03102**
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Astroh, Michael MacColl's evolutionary design of language. (English summary) (*see* **2000m:03013**)
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Boolos, George (*with* Heck, Richard G., Jnr.) *Die Grundlagen der Arithmetik*, §§82–3. **2000k:03003**
Bryll, Grzegorz (*with* Kostrzycka, Zofia) Various interpretations of the Stoics' "unprovables". (Polish. English and Polish summaries) **2000f:03003**
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Conference:
Alfred Tarski and the Vienna Circle ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Foundational Debate: Constructivity and Complexity in Logic, Mathematics and Physics ★ The foundational debate. **2000m:03012**
Hugh MacColl and the Tradition of Logic ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Correspondence:
Tarski, Alfred–Gödel, Kurt *see* **Tarski, Alfred, (2000k:03006)**
Foundational debate ★ The foundational debate. **2000m:03012**
From Dedekind to Gödel ★ From Dedekind to Gödel. (English summary) **2000k:03008**
Greifswald ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Hugh MacColl and the tradition of logic ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Obituary:
Prucnal, Tadeusz *see* **Perzanowski, Jerzy, 2000j:01094**
Results of V. A. Smirnov in the field of modern formal logic The results of V. A. Smirnov in the field of modern formal logic. (Russian. English summary) **2000e:01042a**
Vienna ★ The foundational debate. **2000m:03012**
— ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Walter Burley ★ {Walter Burley}. **2000j:01016**

03–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 03–04

Belinfante, Johan G. F. On computer-assisted proofs in ordinal number theory. (English summary) **2000e:68144**
Puddu, Susana (*with* Sabia, Juan) An effective algorithm for quantifier elimination over algebraically closed fields using straight line programs. (English summary) **2000e:68191**
Rudnicki, Piotr (*with* Trybulec, Andrzej) On equivalents of well-foundedness. An experiment in MIZAR. (English summary) **2000g:03029**
Sabia, Juan *see* **Puddu, Susana, 2000e:68191**
Trybulec, Andrzej *see* **Rudnicki, Piotr, 2000g:03029**

03–06 Proceedings, conferences, collections, etc.

(Arslanov, Marat M.) *see* **Recursion theory and complexity, 2000g:03004**
(Astroh, Michael) *see* **Hugh MacColl and the tradition of logic, 2000m:03013**
(Benerecetti, Massimo) *see* **Modeling and using context, 2000g:03003**
(Bennet, Christian) *see* **Arithmetization of metamathematics, 2000h:03004**
(Besnard, Philippe) *see* **Reasoning with actual and potential contradictions, 2000k:03013**
Boolos, George ★ Logic, logic, and logic. (English summary) **2000b:03005**
— *see also* **Symposium: Boolos, George Stephen, 2000h:03009**
(Bouquet, Paolo) *see* **Modeling and using context, 2000g:03003**
(Brézillon, Patrick) *see* **Modeling and using context, 2000g:03003**
(Burgess, John P.) *see* **Boolos, George, 2000b:03005**
(Buss, Samuel R.) *see* **Colloquium: Logic '98, 2000k:03007**
(Cantini, Andrea) *see* **Logic and foundations of mathematics, 2000j:03003**
(Carnielli, Walter A.) *see* **Advances in contemporary logic and computer science, 2000h:03003**
(Casari, Ettore) *see* **Logic and foundations of mathematics, 2000j:03003**
(Castellani, Francesca) *see* **Modeling and using context, 2000g:03003**
(Cooper, S. Barry) *see* **Sets and proofs, 2000e:03005** *and* **Models and computability, 2000e:03006**
(Dancy, Jonathan) *see* **Normativity, 2000h:03008**
(DePauli-Schimanovich, Werner) *see* **Foundational debate, 2000m:03012**
(Detlefsen, Michael) *see* **Symposium: Boolos, George Stephen, 2000h:03009**
(Dezani-Ciancaglini, Mariangiola) *see* **Theories of types and proofs, 2000h:03010**
(van der Does, Jaap) *see* **Quantifiers, logic, and language, 2000a:03004**
(D'Ottaviano, Itala M. L.) *see* **Advances in contemporary logic and computer science, 2000h:03003**
(Dubois, Didier) *see* **Belief change, 2000k:03014**
(Dummett, Michael) *see* **Festschrift: Dummett, Michael, 2000h:03005**
(van Eijck, Jan) *see* **Quantifiers, logic, and language, 2000a:03004**
(Ershov, Yurii Leonidovich) *see* **Mathematical logic and the theory of algorithms, 2000m:03014**
(Evans, David M.) *see* **Model theory of groups and automorphism groups, 2000b:03011**
(Gabbay, Dov M.) *see* **Logic, language and reasoning, 2000k:03009**
(Ginzburg, Jonathan) *see* **Logic, language and computation, 2000e:03003**
(Girard, Jean-Yves) *see* **Typed lambda calculi and applications, 2000g:03005**
(Goncharov, S. S.) *see* **Mathematical logic and the theory of algorithms, 2000m:03014**
(Griffor, Edward R.) *see* **Handbook: Computability theory, 2000e:03001**
(Hájek, Petr[1]) *see* **Colloquium: Logic '98, 2000k:03007**
(Halbach, Volker) *see* **Coherence and dynamics of belief, 2000g:03002**
(Heck, Richard G., Jnr.) *see* **Festschrift: Dummett, Michael, 2000h:03005**
(Hintikka, Jaakko) *see* **From Dedekind to Gödel, 2000k:03008**
(Hunter, Anthony) *see* **Reasoning with actual and potential contradictions, 2000k:03013**
(Jeffrey, Richard) *see* **Boolos, George, 2000b:03005**
(Karpenko, A. S.) *see* **Logical investigations, 2000h:03006**
(Kijania-Placek, Katarzyna) *see* **School: Contemporary Philosophy, 2000k:03016**
(Ko, Ker-I) *see* **Computability and complexity in analysis, 2000b:03007**
(Köhler, Eckehart) *see* **Alfred Tarski and the Vienna Circle, 2000k:03006** *and* **Foundational debate, 2000m:03012**
(Lamarche, François) *see* **Logical aspects of computational linguistics, 2000e:03004**
(Lauener, Henri) *see* **Festschrift: Marcus, Ruth Barcan, 2000m:03011**
(Lecomte, Alain) *see* **Logical aspects of computational linguistics, 2000e:03004**
(Lempp, Steffen) *see* **Recursion theory and complexity, 2000g:03004**
(Lindström, Per) *see* **Arithmetization of metamathematics, 2000h:03004**
(MacColl, Hugh) *see* **Hugh MacColl and the tradition of logic, 2000m:03013**
(Marcus, Ruth Barcan) *see* **Festschrift: Marcus, Ruth Barcan, 2000m:03011**
(Minari, Pierluigi) *see* **Logic and foundations of mathematics, 2000j:03003**
(Moss, Lawrence S.) *see* **Logic, language and computation, 2000e:03003**
(Mundici, Daniele) *see* **Logics of uncertainty, 2000k:03010**
(Nef, Frédéric) *see* **Formalism questioned, 2000b:03009**
(Nerode, A.) *see* **Computability and complexity in analysis, 2000b:03007**
(Ohlbach, Hans Jürgen) *see* **Logic, language and reasoning, 2000k:03009**
(Okada, Mitsuhiro) *see* **Theories of types and proofs, 2000h:03010**
(Olsson, Erik J.) *see* **Coherence and dynamics of belief, 2000g:03002**
(Orłowska, Ewa) *see* **Logic at work, 2000e:03002**
(Perrier, Guy) *see* **Logical aspects of computational linguistics, 2000e:03004**
(Prade, Henri) *see* **Belief change, 2000k:03014**
(Pudlák, Pavel) *see* **Colloquium: Logic '98, 2000k:03007**
(Rasiowa, Helena) *see* **Logic at work, 2000e:03002**
(Ray, Greg) *see* **Topos: probability, logics and exactitude, 2000h:03011**
(Read, Stephen) *see* **Hugh MacColl and the tradition of logic, 2000m:03013**
(Reyle, Uwe) *see* **Logic, language and reasoning, 2000k:03009**
(de Rijke, Maarten) *see* **Logic, language and computation, 2000e:03003**
(Rozhkovskaya, Tamara) *see* **Model theory and applications, 2000h:03007**
(Sambin, Giovanni) *see* **Twenty-five years of constructive type theory, 2000k:03017**
(Serafini, Luciano) *see* **Modeling and using context, 2000g:03003**
(Shapiro, Stewart) *see* **Symposium: Boolos, George Stephen, 2000h:03009**
(Skordev, Dimit^{n}r G.) *see* **Logical Biennial, 2000b:03010**
(Smets, Philippe) *see* **Quantified representation of uncertainty and imprecision, 2000k:03012**
(Smirnov, Vladimir Aleksandrovich[4]) *see* **Conference: Smirnov's Readings, 2000b:03008**
(Smirnova, E. D.) *see* **Logical investigations, 2000h:03006**
(Smith, Jan M.) *see* **Twenty-five years of constructive type theory, 2000k:03017**
(Stadler, Friedrich) *see* **Foundational debate, 2000m:03012**
(Takahashi, Masako) *see* **Theories of types and proofs, 2000h:03010**
(Tarski, Alfred) *see* **Alfred Tarski and the Vienna Circle, 2000k:03006**
(Truss, John K.) *see* **Sets and proofs, 2000e:03005** *and* **Models and computability, 2000e:03006**
(Tymoczko, A. Thomas) *see* **Mathematical proof, 2000a:03003**
(Vasyukov, Vladimir L.) *see* **Conference: Smirnov's Readings, 2000b:03008**
(Vernant, Denis) *see* **Formalism questioned, 2000b:03009**
(Weihrauch, Klaus) *see* **Computability and complexity in analysis, 2000b:03007**
(Woleński, Jan) *see* **Alfred Tarski and the Vienna Circle, 2000k:03006** *and* **School: Contemporary Philosophy, 2000k:03016**

Items listed otherwise than by author

Advances in contemporary logic and computer science ★ Advances in contemporary logic and computer science. **2000h:03003**
Alfred Tarski and the Vienna Circle ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
American Mathematical Society Translations, Series 2 ★ Model theory and applications. **2000h:03007**
Arithmetization of metamathematics ★ The arithmetization of metamathematics. **2000h:03004**
Belief change ★ Belief change. **2000k:03014**
Biography:
MacColl, Hugh ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Birthday:
Gabbay, Dov M. ★ Logic, language and reasoning. **2000k:03009**
Lindström, Per ★ The arithmetization of metamathematics. **2000h:03004**
Skordev, Dimit^{n}r G. ★ Fourth Logical Biennial. **2000b:03010**
Blaubeuren ★ Model theory of groups and automorphism groups. **2000b:03011**
Boston, MA ★ From Dedekind to Gödel. (English summary) **2000k:03008**
Castle Dagstuhl ★ Computability and complexity in analysis. **2000b:03007**
Coherence and dynamics of belief ★ Coherence and dynamics of belief. **2000g:03002**
Colloquium:
1930s: the Reaffirmation of Formalism ★ Le formalisme en question. (French) [Formalism questioned] **2000b:03009**
Logic '95 ★ Logic Colloquium '95. **2000b:03006**
Logic '97 ★ Sets and proofs. **2000e:03005**
— ★ Models and computability. **2000e:03006**
Logic '98 ★ Logic Colloquium '98. **2000k:03007**
Computability and complexity in analysis ★ Computability and complexity in analysis. **2000b:03007**
Conference:
Alfred Tarski and the Vienna Circle ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Coherence and Dynamics of Belief ★ Coherence and dynamics of belief. **2000g:03002**
Foundational Debate: Constructivity and Complexity in Logic, Mathematics and Physics ★ The foundational debate. **2000m:03012**
Hugh MacColl and the Tradition of Logic ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Information-Theoretic Approaches to Logic, Language and Computation ★ Logic, language and computation. Vol. 2. **2000e:03003**
Intuitionistic Fuzzy Sets ★ Third International Conference on Intuitionistic Fuzzy Sets. Vol. 1. **2000m:03009**
— ★ Third International Conference on Intuitionistic Fuzzy Sets. Vol. 2. **2000m:03010**

Conference: (*cont'd.*)
Logical Aspects of Computational Linguistics ★ Logical aspects of computational linguistics. **2000e:03004**
Mathematical Logic ★ Advances in contemporary logic and computer science. **2000h:03003**
Modeling and Using Context ★ Modeling and using context. **2000g:03003**
Smirnov's Readings ★ International Conference "Smirnov's Readings". **2000b:03008**
— ★ Логические исследования. Вып. 5. (Russian) [Logical investigations. No. 5] **2000h:03006**
Typed Lambda Calculi and Applications ★ Typed lambda calculi and applications. **2000g:03005**
Congress:
Logic, Methodology and Philosophy of Science ★ Logic and foundations of mathematics. **2000j:03003**
Twenty-five Years of Constructive Type Theory ★ Twenty-five years of constructive type theory. **2000k:03017**
Contemporary Mathematics ★ Advances in contemporary logic and computer science. **2000h:03003**
Festschrift:
Dummett, Michael ★ Language, thought, and logic. **2000h:03005**
Gabbay, Dov M. ★ Logic, language and reasoning. **2000k:03009**
Marcus, Ruth Barcan ★ Festschrift zu Ehren von Ruth Barcan Marcus. [Festschrift in honor of Ruth Barcan Marcus] **2000m:03011**
Skordev, Dimitʺr G. ★ Fourth Logical Biennial. **2000b:03010**
Florence ★ Logic and foundations of mathematics. **2000j:03003**
Formalism questioned ★ Le formalisme en question. (French) [Formalism questioned] **2000b:03009**
Formalisme en question ★ Le formalisme en question. (French) [Formalism questioned] **2000b:03009**
Foundational debate ★ The foundational debate. **2000m:03012**
From Dedekind to Gödel ★ From Dedekind to Gödel. (English summary) **2000k:03008**
Gjuletchitza ★ Fourth Logical Biennial. **2000b:03010**
Greifswald ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Haifa ★ Logic Colloquium '95. **2000b:03006**
Handbook:
Computability theory ★ Handbook of computability theory. **2000e:03001**
Hugh MacColl and the tradition of logic ★ Hugh MacColl and the tradition of logic. **2000m:03013**
Kazan ★ Recursion theory and complexity. **2000g:03004**
Konstanz ★ Coherence and dynamics of belief. **2000g:03002**
L'Aquila ★ Typed lambda calculi and applications. **2000g:03005**
Language, thought, and logic ★ Language, thought, and logic. **2000h:03005**
Lecture Notes in Computer Science ★ Logical aspects of computational linguistics. **2000e:03004**
— ★ Modeling and using context. **2000g:03003**
— ★ Typed lambda calculi and applications. **2000g:03005**
Leeds ★ Sets and proofs. **2000e:03005**
— ★ Models and computability. **2000e:03006**
Logic and foundations of mathematics ★ Logic and foundations of mathematics. **2000j:03003**
Logic at work ★ Logic at work. **2000e:03002**
Logic, language and computation ★ Logic, language and computation. Vol. 2. **2000e:03003**
Logic, language and reasoning ★ Logic, language and reasoning. **2000k:03009**
Logical aspects of computational linguistics ★ Logical aspects of computational linguistics. **2000e:03004**
Logical Biennial ★ Fourth Logical Biennial. **2000b:03010**
Logical investigations ★ Логические исследования. Вып. 5. (Russian) [Logical investigations. No. 5] **2000h:03006**
Logics of uncertainty ★ Logics of uncertainty. **2000k:03010**
London ★ Logic, language and computation. Vol. 2. **2000e:03003**
Lvov ★ The Lvov-Warsaw School and Contemporary Philosophy. **2000k:03016**
Mathematical logic and the theory of algorithms ★ Математическая логика и теория алгоритмов. (Russian) [Mathematical logic and the theory of algorithms] **2000m:03014**
Mathematical proof ★ Mathematical proof. **2000a:03003**
Meeting:
Association for Symbolic Logic ★ Sets and proofs. **2000e:03005**
— ★ Models and computability. **2000e:03006**
— ★ Logic Colloquium '98. **2000k:03007**
Society for Exact Philosophy ★ Topos: probability, logics and exactitude. **2000h:03011**
Memorial Issue:
Boolos, George Stephen ★ The George Boolos Memorial Symposium. **2000h:03009**
Tymoczko, A. Thomas ★ Mathematical proof. **2000a:03003**
Memorial Volume:
Rasiowa, Helena ★ Logic at work. **2000e:03002**
Model theory and applications ★ Model theory and applications. **2000h:03007**
Model theory of groups and automorphism groups ★ Model theory of groups and automorphism groups. **2000b:03011**
Modeling and using context ★ Modeling and using context. **2000g:03003**
Models and computability ★ Models and computability. **2000e:03006**
Montreal, QC ★ Topos: probability, logics and exactitude. **2000h:03011**
Moscow ★ International Conference "Smirnov's Readings". **2000b:03008**
— ★ Логические исследования. Вып. 5. (Russian) [Logical investigations. No. 5] **2000h:03006**
Nancy ★ Logical aspects of computational linguistics. **2000e:03004**
Normativity ★ Normativity. **2000h:03008**
Notre Dame, IN ★ The George Boolos Memorial Symposium. **2000h:03009**
Prague ★ Logic Colloquium '98. **2000k:03007**
Properties of ideals on $P_\kappa\lambda$ ★ $P_\kappa\lambda$ ue no idearu no seishitsu. [Properties of ideals on $P_\kappa\lambda$] **2000k:03011**
Quantified representation of uncertainty and imprecision ★ Quantified representation of uncertainty and imprecision. **2000k:03012**
Quantifiers, logic, and language ★ Quantifiers, logic, and language. **2000a:03004**
Reasoning with actual and potential contradictions ★ Reasoning with actual and potential contradictions. **2000k:03013**
Recursion theory and complexity ★ Recursion theory and complexity. **2000g:03004**
Research into various systems of second order arithmetic ★ Research into various systems of second order arithmetic. **2000k:03015**
Saint-Malo ★ Le formalisme en question. (French) [Formalism questioned] **2000b:03009**
Salvador ★ Advances in contemporary logic and computer science. **2000h:03003**
School:
Contemporary Philosophy ★ The Lvov-Warsaw School and Contemporary Philosophy. **2000k:03016**
Model Theory of Groups and Automorphism Groups ★ Model theory of groups and automorphism groups. **2000b:03011**
Seminar:
Computability and Complexity in Analysis ★ Computability and complexity in analysis. **2000b:03007**
Sets and proofs ★ Sets and proofs. **2000e:03005**
Sofia ★ Third International Conference on Intuitionistic Fuzzy Sets. Vol. 1. **2000m:03009**
— ★ Third International Conference on Intuitionistic Fuzzy Sets. Vol. 2. **2000m:03010**
Special Issue:
Arithmetization of metamathematics ★ The arithmetization of metamathematics. **2000h:03004**
Logics of uncertainty ★ Logics of uncertainty. **2000k:03010**
Normativity ★ Normativity. **2000h:03008**
Symposium:
Boolos, George Stephen ★ The George Boolos Memorial Symposium. **2000h:03009**
Properties of Ideals on $P_\kappa\lambda$ ★ $P_\kappa\lambda$ ue no idearu no seishitsu. [Properties of ideals on $P_\kappa\lambda$] **2000k:03011**
Research into Various Systems of Second Order Arithmetic ★ Research into various systems of second order arithmetic. **2000k:03015**
Theories of types and proofs ★ Theories of types and proofs. **2000h:03010**
Tokyo ★ Theories of types and proofs. **2000h:03010**
Topos: probability, logics and exactitude ★ Topos: probability, logics and exactitude. **2000h:03011**
Trento ★ Modeling and using context. **2000g:03003**
Twenty-five years of constructive type theory ★ Twenty-five years of constructive type theory. **2000k:03017**
Typed lambda calculi and applications ★ Typed lambda calculi and applications. **2000g:03005**
Venice ★ Twenty-five years of constructive type theory. **2000k:03017**
Vienna ★ The foundational debate. **2000m:03012**
— ★ Alfred Tarski and the Vienna Circle. **2000k:03006**
Warsaw ★ The Lvov-Warsaw School and Contemporary Philosophy. **2000k:03016**
Workshop:
Recursion Theory and Complexity Theory ★ Recursion theory and complexity. **2000g:03004**
Theories of Types and Proofs ★ Theories of types and proofs. **2000h:03010**

Items with secondary classifications in 03–06

Beklemishev, L. D. (*with* Pentus, Mati; Vereshchagin, Nikolai K.) ★ Provability, complexity, grammars. **2000g:68002**
(Berger, Ulrich) *see* **Computational logic, 2000b:68002**
(Bicchieri, Cristina) *see* **Logic of strategy, 2000e:91002**
(Calude, Cristian S.) *see* **Combinatorics, computation & logic '99, 2000f:68001**
(Casari, Ettore) *see* **Selected papers in honour of Ettore Casari**
(Dales, H. G.) *see* **Truth in mathematics, 2000j:03008**
(Dalla Chiara, Maria Luisa) *see* **Selected papers in honour of Ettore Casari**
(Dinneen, Michael J.) *see* **Combinatorics, computation & logic '99, 2000f:68001**
(Dix, Jürgen) *see* **Logics in artificial intelligence, 2000h:68019**
(Fariñas del Cerro, Luis) *see* **Logics in artificial intelligence, 2000h:68019**
(Furbach, Ulrich) *see* **Logics in artificial intelligence, 2000h:68019**
(Gottlob, Georg) *see* **Computer science logic, 2000f:68002**
(Grandjean, Etienne) *see* **Computer science logic, 2000f:68002**
(Harsanyi, John C.) *see* **Game theory, experience, rationality, 2000k:00052**
(Jacobs, Bart) *see* **Workshop: Coalgebraic Methods in Computer Science, 2000b:68007**
(Jeffrey, Richard) *see* **Logic of strategy, 2000e:91002**
(Köhler, Eckehart) *see* **Game theory, experience, rationality, 2000k:00052**
(Kozen, Dexter) *see* **LICS, 2000m:68006**
(Leinfellner, Werner) *see* **Game theory, experience, rationality, 2000k:00052**
(Mundici, Daniele) *see* **Selected papers in honour of Ettore Casari**
(Nielsen, Mogens) *see* **Computer science logic, 2000g:68005**
(Oliveri, Gianluigi) *see* **Truth in mathematics, 2000j:03008**
Pentus, Mati *see* **Beklemishev, L. D. et al., 2000g:68002**
(Rutten, Jan J. M. M.) *see* **Workshop: Coalgebraic Methods in Computer Science, 2000b:68007**
(Schwichtenberg, Helmut) *see* **Computational logic, 2000b:68002**
(Seyr, Katrin) *see* **Computer science logic, 2000f:68002**
(Skyrms, Brian) *see* **Logic of strategy, 2000e:91002**
(Thomas, Wolfgang) *see* **Computer science logic, 2000g:68005**
Vereshchagin, Nikolai K. *see* **Beklemishev, L. D. et al., 2000g:68002**

Items listed otherwise than by author

Aarhus ★ Computer science logic. **2000g:68005**
American Mathematical Society Translations, Series 2 *see* **Beklemishev, L. D. et al., 2000g:68002**
Amsterdam ★ CMCS'99 Coalgebraic Methods in Computer Science. **2000b:68007**
Birthday:
Casari, Ettore ★ Selected papers in honour of Ettore Casari.

Brno ★ Computer science logic. **2000f:68002**
Combinatorics, computation & logic '99 ★ Combinatorics, computation & logic '99. **2000f:68001**
Computational logic ★ Computational logic. **2000b:68002**
Computer science logic ★ Computer science logic. **2000g:68005**
— ★ Computer science logic. **2000f:68002**
Conference:
Discrete Mathematics and Theoretical Computer Science ★ Combinatorics, computation & logic '99. **2000f:68001**
European Association for Computer Science Logic ★ Computer science logic. **2000g:68005**
European Association for Computer Science Logic (EACSL) ★ Computer science logic. **2000f:68002**
Truth in Mathematics ★ Truth in mathematics. **2000j:03008**
Dagstuhl ★ Logics in artificial intelligence. **2000h:68019**
Festschrift:
Casari, Ettore ★ Selected papers in honour of Ettore Casari.
Harsanyi, John C. ★ Game theory, experience, rationality. **2000k:00052**
Game theory, experience, rationality ★ Game theory, experience, rationality. **2000k:00052**
IEEE Symposium:
Logic in Computer Science ★ LICS 1995. **2000m:68006**
Lecture Notes in Computer Science ★ Computer science logic. **2000g:68005**
— ★ Logics in artificial intelligence. **2000h:68019**
— ★ Computer science logic. **2000f:68002**
LICS ★ LICS 1995. **2000m:68006**
Logic of strategy ★ The logic of strategy. **2000e:91002**
Logics in artificial intelligence ★ Logics in artificial intelligence. **2000h:68019**
Marktoberdorf ★ Computational logic. **2000b:68002**
Mussomeli ★ Truth in mathematics. **2000j:03008**
NATO Advanced Study Institute:
Computational Logic ★ Computational logic. **2000b:68002**
Provability, complexity, grammars *see* **Beklemishev, L. D. et al., 2000g:68002**
San Diego, CA ★ LICS 1995. **2000m:68006**
School:
Computational Logic ★ Computational logic. **2000b:68002**
Selected papers in honour of Ettore Casari ★ Selected papers in honour of Ettore Casari.
Symposium:
Computing: the Australasian Theory ★ Combinatorics, computation & logic '99. **2000f:68001**
Truth in mathematics ★ Truth in mathematics. **2000j:03008**
Workshop:
Coalgebraic Methods in Computer Science ★ CMCS'99 Coalgebraic Methods in Computer Science. **2000b:68007**
Computer Science Logic ★ Computer science logic. **2000g:68005**
— ★ Computer science logic. **2000f:68002**
Logics in Artificial Intelligence ★ Logics in artificial intelligence. **2000h:68019**

03A05 Philosophical and critical {For philosophy of mathematics, see also 00A30.}

Adams, Ernest W. Idealization in applied first-order logic. (English summary) **2000e:03007**
Ahmed, Arif Comment: B. Hale, "On some arguments for the necessity of necessity" [Mind **108** (1999), no. 429, 23–52; 1682632].
Almog, Joseph Nothing, something, infinity.
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03B15 Higher-order logic and type theory

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03B20 Subsystems of classical logic (including intuitionistic logic)

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03B22 Abstract deductive systems

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03B25 Decidability of theories and sets of sentences [see also 11U05, 12L05, 20F10]

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Birthday:
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03B40 Combinatory logic and lambda-calculus [see also 68N18]

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03B48 Probability and inductive logic [see also 60A05]

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03B53 Logics admitting inconsistency (paraconsistent logics, discussive logics, etc.)

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"The trivial object and the non-triviality of a semantically closed theory with descriptions" Erratum: "The trivial object and the non-triviality of a semantically closed theory with descriptions" [J. Appl. Non-Classical Logics **8** (1998), no. 1-2, 171–183; MR 2000d:03060a] by G. Priest. **2000d:03060b**

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03C52 Properties of classes of models

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03C55 Set-theoretic model theory

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03C57 Effective and recursion-theoretic model theory [see also 03D45]

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03C60 Model-theoretic algebra [see also 08C10, 12Lxx, 13L05]

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Fenner, Stephen (*with* Homer, Steven; Pruim, Randall; Schaefer, Marcus) Hyper-polynomial hierarchies and the NP-jump. (English summary) (*see* **2000m:68005**)
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Ishmukhametov, Shamil On the r.e. predecessors of d.r.e. degrees. (English summary) **2000e:03122**
Lu, Hong (*with* Ding, Decheng; Qian, Lei) A splitting with infimum in the d-c.e. degrees. (English summary) **2000m:03100**
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Qian, Lei *see* **Lu, Hong et al., 2000m:03100**
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Stephan, Frank C. (*with* Terwijn, Sebastiaan A.) The complexity of universal text-learners. (English summary) **2000i:68086**
Terwijn, Sebastiaan A. *see* **Stephan, Frank C., 2000i:68086**

03D30 Other degrees and reducibilities

Ahmad, Seema (*with* Lachlan, Alistair H.) Some special pairs of Σ_2 e-degrees. (English summary) **2000a:03068**
Blaylock, Rich (*with* Downey, Rodney G.; Lempp, Steffen) Infima in the recursively enumerable weak truth table degrees. (English summary) **2000d:03089**
Boldi, Paolo (*with* Vigna, Sebastiano) Equality is a jump. (English summary) **2000i:03062**
Buhrman, Harry (*with* Torenvliet, Leen) Complete sets and structure in subrecursive classes. (English summary) **2000b:03155**
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Fejer, Peter A. Lattice representations for computability theory. (English summary) **2000e:03123**
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Kristiansen, Lars Low_n, High_n, and intermediate subrecursive degrees. **2000j:03058**
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Mochizuki, Asae Lattice embedding into the p-s-degrees of recursive functions. (English summary) **2000k:03091**
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Polyakov, E. A. Minimal m-degrees. (Russian) **2000e:03124**
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Shore, Richard A. (*with* Sorbi, Andrea) Jumps of Σ_2^0-high e-degrees and properly Σ_2^0 e-degrees. **2000i:03065**
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Sorbi, Andrea Sets of generators and automorphism bases for the enumeration degrees. (English summary) **2000a:03069**
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Chong, Chi Tat (*with* Yang, Yue) Σ_2 induction and infinite injury priority argument. I. Maximal sets and the jump operator. **2000a:03065**
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Gasarch, William I. (*with* Stephan, Frank C.) A techniques-oriented survey of bounded queries. (English summary) **2000g:03101**
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— (*with* Yi, Xiaoding) Cupping the recursively enumerable degrees by d.r.e. degrees. **2000f:03122**
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Yang, Yue *see* **Chong, Chi Tat, 2000a:03065**
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03D35 Undecidability and degrees of sets of sentences

Bès, Alexis (*with* Richard, Denis) Undecidable extensions of Skolem arithmetic. (English and French summaries) **2000d:03090**
Cassaigne, Julien (*with* Harju, Tero; Karhumäki, Juhani) On the undecidability of freeness of matrix semigroups. (English summary) **2000k:03092**
Durnev, V. G. (*with* Shalashov, V. K.) On universal theories of symmetric groups. (Russian) **2000m:03106**
Erdélyi-Szabó, Miklós Undecidability of the real-algebraic structure of Scott's model. (English summary) **2000b:03157**
Gurevich, Yuri (*with* Veanes, Margus) Logic with equality: partisan corroboration and shifted pairing. (English summary) **2000f:03124**
Halava, Vesa (*with* Hirvensalo, Mika; de Wolf, Ronald) Decidability and undecidability of marked PCP. (English summary) **2000i:03067**
Harju, Tero *see* **Cassaigne, Julien et al., 2000k:03092**
Hirvensalo, Mika *see* **Halava, Vesa et al., 2000i:03067**
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Pheidas, Thanases (*with* Zahidi, Karim) Undecidable existential theories of polynomial rings and function fields. (English summary) **2000f:03125**
Popov, Vladimir Yur'evich On the decidability of equational theories of varieties of rings. (Russian. Russian summary) **2000e:03125**
Richard, Denis *see* **Bès, Alexis, 2000d:03090**
Shalashov, V. K. *see* **Durnev, V. G., 2000m:03106**
Veanes, Margus *see* **Gurevich, Yuri, 2000f:03124**
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Cegielski, Patrick (*with* Richard, Denis) On arithmetical first-order theories allowing encoding and decoding of lists. (English summary) **2000d:03147**
Crvenković, Siniša (*with* Dolinka, Igor) A variety with undecidable equational theory and solvable word problem. (English summary) **2000b:08009**
Dolinka, Igor *see* **Crvenković, Siniša, 2000b:08009**
Downey, Rodney G. (*with* Nies, André) Undecidability results for low complexity degree structures (extended abstract). (English summary) (*see* **2000m:68005**)
— (*with* LaForte, Geoffrey; Nies, André) Computably enumerable sets and quasi-reducibility. (English summary) **2000c:03034a**
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Ganzinger, Harald (*with* Jacquemard, Florent; Veanes, Margus) Rigid reachability. (English summary) (*see* **2000h:68005**)
Grädel, Erich (*with* Otto, Martin; Rosen, Eric) Undecidability results on two-variable logics. (English summary) **2000g:03085**
Hirsch, Robin A finite relation algebra with undecidable network satisfaction problem. (English summary) **2000f:03195**
Horváth, Sándor (*with* Ito, Masami[1]) Decidable and undecidable problems of primitive words, regular and context-free languages. (English summary) **2000m:68091**
Idziak, Paweł M. Decidability and structure. **2000i:08007**
Ikeda, Daisuke *see* **Sakamoto, Hiroshi[2], 2000m:68102**
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Jackson, Marcel Some undecidable embedding problems for finite semigroups. (English summary) **2000f:20100**
Jacquemard, Florent *see* **Ganzinger, Harald et al., (2000h:68005**)
Ježek, Jaroslav A decidable equational theory with undecidable membership problem for finite algebras. **2000b:08012**
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Marx, Maarten (*with* Reynolds, Mark Alexander) Undecidability of compass logic. (English summary) **2000k:03051**
Nakamura, Akira[1] Conflict logic with degrees. (English summary) **2000f:03057**
Nies, André *see* **Downey, Rodney G. et al., 2000c:03034a**;**2000c:03034b** *and* **(2000m:68005**)
Otto, Friedrich Uniform decision problems for certain restricted classes of finite monoid presentations—a survey on recent undecidability results. (English summary) **2000i:68090**
Otto, Martin *see* **Grädel, Erich et al., 2000g:03085**
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Pinus, A. G. On elementary theories of generic multi-algebras. (Russian) **2000f:03093**
Popov, Vladimir Yur'evich On the problem of the derivability of identities in varieties of rings. (Russian. Russian summary) **2000k:08003**
Prest, Mike (*with* Puninskiĭ, G. E.) Some model theory over hereditary Noetherian domains. (English summary) **2000b:03132**
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Sakamoto, Hiroshi[2] (*with* Ikeda, Daisuke) Intractability of decision problems for finite-memory automata. (English summary) **2000m:68102**
Sapir, Mark V. *see* **Kublanovskiĭ, S. I., 2000a:08013** *and* **2000a:20125**
Shlapentokh, Alexandra Weak presentations of non-finitely generated fields. (English summary) **2000a:03071**
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03D40 Word problems, etc. [see also 06B25, 08A50, 20F10, 68R15]

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Prest, Mike (*with* Puninskiĭ, G. E.) Some model theory over hereditary Noetherian domains. (English summary) **2000b:03132**
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Swanepoel, Christiaan Jacobus *see* **Fouché, W. L. et al., 2000b:68178**
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Wang, Jie[1] Distributional word problem for groups. (English summary) **2000j:68060**

03D45 Theory of numerations, effectively presented structures [see also 03C57; for intuitionistic and similar approaches see 03F55]

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Cenzer, Douglas (*with* Remmel, Jeffrey B.) Feasible graphs with standard universe. (English summary) **2000b:03158**
Downey, Rodney G. Computability theory and linear orderings. **2000j:03059**
— (*with* Jockusch, Carl G., Jr.) Effective presentability of Boolean algebras of Cantor-Bendixson rank 1. (English summary) **2000e:03126**
Ershov, Yurii Leonidovich Theory of numberings. (English summary) **2000j:03060**
Ganova, R. V. Iterated Kleene computability with two-place oracles. (Russian. Russian summary) **2000h:03083**
Gasarch, William I. A survey of recursive combinatorics. **2000f:03127**
— (*with* Lee, Andrew C. Y.) On the finiteness of the recursive chromatic number. (English summary) **2000a:03070**
Goncharov, S. S. (*with* Sorbi, Andrea) Generalized computable numerations and nontrivial Rogers semilattices. (Russian. Russian summary) **2000b:03159**
— (*with* Badaev, S. A.) Families with a one-element Rogers semilattice. (Russian. Russian summary) **2000d:03091**
Harizanov, Valentina S. Effectively nowhere simple relations on computable structures. (English summary) **2000m:03107**
Hertling, Peter H. A real number structure that is effectively categorical. (English summary) **2000f:03128**
Jockusch, Carl G., Jr. *see* **Downey, Rodney G., 2000e:03126**
Kalantari, Iraj (*with* Welch, Lawrence) Recursive and nonextendible functions over the reals; filter foundation for recursive analysis. II. (English summary) **2000g:03098**
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Morozov, A. S. Hyperarithmetical functions and algebraicity. (English summary) **2000g:03099**
Odintsov, S. P. Generally constructive Boolean algebras. **2000e:03128**
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Shlapentokh, Alexandra Weak presentations of non-finitely generated fields. (English summary) **2000a:03071**
Shore, Richard A. *see* **Khoussainov, Bakhadyr**
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Sorbi, Andrea *see* **Goncharov, S. S., 2000b:03159**
Spreen, Dieter On effective topological spaces. (English summary) **2000b:03160**
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Tsujii, Yoshiki *see* **Yasugi, Mariko et al., 2000f:03132**
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Vlasov, V. N. Constructivizability of Boolean algebras of elementary characteristic $(1, 0, 1)$. (Russian. Russian summary) **2000d:03094**
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Yasugi, Mariko (*with* Mori, Takakazu; Tsujii, Yoshiki) Effective properties of sets and functions in metric spaces with computability structure. (English summary) **2000f:03132**

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— (*with* Stolboushkin, A. P.; Taitslin, Mikhail A.) Extended order-generic queries. (English summary) **2000i:68039**
Brattka, Vasco (*with* Kalantari, Iraj) A bibliography of recursive analysis and recursive topology. **2000d:03161**
Cenzer, Douglas (*with* Remmel, Jeffrey B.) Complexity-theoretic model theory and algebra. **2000d:03077**
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Gasarch, William I. (*with* Hirst, Jeffry L.) Reverse mathematics and recursive graph theory. (English summary) **2000d:03150**
Goncharov, S. S. Autostable models and algorithmic dimensions. **2000g:03086**
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— (*with* Malmström, A.) 0-1 laws for recursive structures. (English summary) **2000g:03087**
Gurevich, Yuri *see* **Grädel, Erich, 2000d:03079**
Harel, David Towards a theory of recursive structures. (English summary) **2000a:68018**
Herwig, Bernhard (*with* Lempp, Steffen; Ziegler, Martin[1]) Constructive models of uncountably categorical theories. (English summary) **2000b:03129**
Hirst, Jeffry L. *see* **Gasarch, William I., 2000d:03150**
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Schmerl, James H. Recursive models and the divisibility poset. (English summary) **2000d:03175**
Shlapentokh, Alexandra Weak presentations of fields not extendible to recursive presentations. (English summary) **2000i:03050**
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Stolboushkin, A. P. Towards recursive model theory. (English summary) **2000e:03108**
— *see also* **Belegradek, Oleg V. et al., 2000i:68038** *and* **2000i:68039**
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03D50 Recursive equivalence types of sets and structures, isols

McLaughlin, Thomas G. Existentially incomplete tame models and a conjecture of Ellentuck. (English summary) **2000d:03095**

03D55 Hierarchies

Gasarch, William I. (*with* Stephan, Frank C.) A techniques-oriented survey of bounded queries. (English summary) **2000g:03101**
Slaman, Theodore A. Mathematical definability. (*see* **2000j:03008**)
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Weihrauch, Klaus (*with* Zheng, Xizhong) A finite hierarchy of the recursively enumerable real numbers. (English summary) **2000a:03072**
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Cai, Jin-Yi (*with* Hemaspaandra, Lane A.; Wechsung, Gerd) Robust reductions. (English summary) **2000i:03063**
Carton, Olivier (*with* Perrin, Dominique) The Wadge-Wagner hierarchy of ω-rational sets. (English summary) **2000d:68078**
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Morozov, A. S. Hyperarithmetical functions and algebraicity. (English summary) **2000g:03099**
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Szwast, Wiesław The class of existential second-order Bernays-Shönfinkel sentences and the exponential hierarchy. (English summary) **2000j:68059**
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Wechsung, Gerd *see* **Cai, Jin-Yi et al., 2000i:03063**
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03D60 Computability and recursion theory on ordinals, admissible sets, etc.

Chong, Chi Tat (*with* Friedman, S. D.) Ordinal recursion theory. **2000k:03093**
Friedman, S. D. *see* **Chong, Chi Tat, 2000k:03093**
Korovina, M. V. (*with* Kudinov, O. V.) A new approach to computability over the reals. (English summary) **2000b:03161**
— (*with* Kudinov, O. V.) Characteristic properties of majorant-computability over the reals. (English summary) **2000g:03102**
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03D65 Higher-type and set recursion theory

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Berger, Ulrich Continuous functionals of dependent and transfinite types. **2000g:03103**
Brattka, Vasco (*with* Weihrauch, Klaus) Computability on subsets of Euclidean space. I. Closed and compact subsets. (English summary) **2000e:03129**
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— Monotone majorizable functionals. (English summary) **2000f:03133**
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Mori, Takakazu *see* **Yasugi, Mariko et al., 2000f:03132**
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— Non-distributive upper semilattice of Kleene degrees. (English summary) **2000k:03103**
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Tucker, John V. (*with* Zucker, J. I.) Computation by 'while' programs on topological partial algebras. (English summary) **2000e:68056**
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Zucker, J. I. *see* **Tucker, John V., 2000e:68056**

03D70 Inductive definability

Mathias, A. R. D. Recurrent points and hyperarithmetic sets. (English summary) **2000d:03097**
Nikolova, Stela K. Π^0_1-positive inductive definability on abstract structures. (English summary) **2000j:03061**

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Dawar, Anuj Finite models and finitely many variables. (English summary) **2000g:03081**
Dybjer, Peter (*with* Setzer, Anton) A finite axiomatization of inductive-recursive definitions. (English summary) **2000g:03019**
Huth, Michael On the approximation of denotational mu-semantics. (English summary) **2000h:68136**
Setzer, Anton *see* **Dybjer, Peter, 2000g:03019**
Wells, J. B. Typability and type checking in System F are equivalent and undecidable. (English summary) **2000g:03037**

03D75 Abstract and axiomatic computability and recursion theory

Ashaev, Igor V. Priority method in generalized computability. **2000h:03086**
Hemmerling, Armin Computability over structures of infinite signature. (English summary) **2000j:03062**
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— Code evaluation in operative spaces with storage operation. (English and Russian summaries) **2000m:03109**
— First order axiomatizability of recursion theory in Cartesian linear combinatory algebras. (English summary) **2000i:03070**
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Goldin, Dina *see* **Wegner, Peter, 2000e:68121**
Kudinov, O. V. Algebraic dependences and reducibilities of constructivizations in universal domains [MR 94k:12011]. (Russian. Russian summary) (*see* **2000m:03014**)
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03D80 Applications of computability and recursion theory

Calude, Cristian S. (*with* Hertling, Peter H.) Computable approximations of reals: an information-theoretic analysis. (English summary) **2000b:03162**
Hertling, Peter H. *see* **Calude, Cristian S., 2000b:03162**
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Zhong, Ning[1] Derivatives of computable functions. (English summary) **2000a:03075**

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Chong, Chi Tat (*with* Friedman, S. D.) Ordinal recursion theory. **2000k:03093**
Cooper, S. Barry Clockwork or Turing U/universe? Remarks on causal determinism and computability. (English summary) **2000i:00021**
Edalat, Abbas (*with* Sünderhauf, Philipp) A domain-theoretic approach to computability on the real line. (English summary) **2000b:03215**
Friedman, S. D. *see* **Chong, Chi Tat, 2000k:03093**
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Hertling, Peter H. A real number structure that is effectively categorical. (English summary) **2000f:03128**
Ho, Chun-Kuen Relatively recursive reals and real functions. (English summary) **2000b:03217**
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Kawamura, Kiko *see* **Kamo, Hiroyasu, 2000d:03164**
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Yasugi, Mariko (*with* Washihara, Masako) Computability structures in analysis. (Japanese) **2000b:03219**
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Zhong, Ning[1] (*with* Zhang, Bing-Yu) L^p-computability. (English summary) **2000k:03142**

03D99 None of the above, but in this section

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03Exx Set theory

Wójtowicz, Krzysztof Heuristic arguments in set theory. (Polish) **2000e:03130**

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03E02 Partition relations

Apter, Arthur W. (*with* Henle, James M.; Jackson, Stephen C.) The calculus of partition sequences, changing cofinalities, and a question of Woodin. (English summary) **2000j:03063**
Darby, Carl Negative partition relations for ordinals ω^{ω^ω}. (English summary) **2000m:03110**
Di Prisco, Carlos Augusto (*with* Henle, James M.) Partitions of the reals and choice. **2000e:03131**
— (*with* Todorčević, Stevo) A cardinal defined by a polarized partition relation. (English summary) **2000f:03135**
— *see also* **Zhang, Shu-guo, 2000f:03136**
Henle, James M. *see* **Di Prisco, Carlos Augusto, 2000e:03131** *and* **Apter, Arthur W. et al., 2000j:03063**
Jackson, Stephen C. *see* **Apter, Arthur W. et al., 2000j:03063**
Kamo, Shizuo Partition properties on $P_\kappa\lambda$. (English summary) (*see* **2000k:03011**)
Protasov, Igor Vladimirovich Ultrafilters on abelian groups close to being Ramsey ultrafilters. (English and Russian summaries) **2000g:03105**
Shioya, Masahiro Partition properties of subsets of $\mathcal{P}_\kappa\lambda$. (English summary) **2000h:03087**
— Partition properties of subsets of $P_\kappa\lambda$. (English summary) (*see* **2000k:03011**)
Todorčević, Stevo Countable chain condition in partition calculus. (English summary) **2000c:03035**
— *see also* **Di Prisco, Carlos Augusto, 2000f:03135**
Wu, Guo Hua Restrictions of filters, preservation of properties, and the weak partition property. (Chinese. English and Chinese summaries) **2000d:03098**
Zhang, Shu-guo (*with* Di Prisco, Carlos Augusto) Relations between two types of polarized partitions. (English summary) **2000f:03136**

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Farley, J. D. Cardinalities of infinite antichains in products of chains. (English summary)

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Symposium:
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03E04 Ordered sets and their cofinalities; pcf theory

Kojman, Menachem Exact upper bounds and their uses in set theory. (English summary) **2000b:03163**
Stanley, Maurice C. Forcing closed unbounded subsets of $\aleph_{\omega+1}$. **2000i:03071**

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Álvarez Jimenez, Carlos On the history of Souslin's problem. **2000h:01019**
Holz, Michael (*with* Steffens, Karsten; Weitz, E.) ★ Introduction to cardinal arithmetic. (English summary) **2000h:03001**
Mazur, Krzysztof A modification of Louveau and Veličković's construction for F_σ-ideals. (English summary) **2000j:03067**
Steffens, Karsten *see* **Holz, Michael et al., 2000h:03001**
Weitz, E. *see* **Holz, Michael et al., 2000h:03001**

03E05 Other combinatorial set theory

Abe, Yoshihiro Basic forcing notions in $P_\kappa\lambda$. (Japanese. Japanese summary) (*see* **2000k:03011**)
Brendle, Jörg (*with* Shelah, Saharon) Ultrafilters on ω—their ideals and their cardinal characteristics. (English summary) **2000m:03111**
Bukovský, Lev Thin sets in a general setting. (English summary) **2000b:03164**
Burke, Douglas R. (*with* Matsubara, Yo) The extent of strength in the club filters. (*see* **2000k:03011**)
Dijkstra, Jan J. Generic partial two-point sets are extendable. (English summary) **2000g:03106**
Džamonja, Mirna (*with* Shelah, Saharon) Similar but not the same: various versions of ♣ do not coincide. (English summary) **2000i:03072**
Dziobiak, Wiesław (*with* Ehrenfeucht, Andrzej; Grace, Jacqueline B.; Silberger, Donald) A deceptive fact about functions. (English summary) **2000m:03112**
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Farah, Ilijas Semiselective coideals. **2000b:03165**
Feng, Qi[2] (*with* Jech, Thomas) Projective stationary sets and a strong reflection principle. (English summary) **2000b:03166**
— Rado's conjecture and presaturation of the nonstationary ideal on ω_1. (English summary) **2000h:03088**
Fuchino, Sakaé (*with* Mildenberger, Heike; Shelah, Saharon; Vojtáš, Peter) On absolutely divergent series. (English summary) **2000g:03107**
Grace, Jacqueline B. *see* **Dziobiak, Wiesław et al., 2000m:03112**
Huuskonen, Taneli (*with* Hyttinen, Tapani; Rautila, Mika) On the κ-cub game on λ and $I[\lambda]$. (English summary) **2000k:03095**
Hyttinen, Tapani *see* **Huuskonen, Taneli et al., 2000k:03095**
Jech, Thomas *see* **Feng, Qi[2], 2000b:03166**
Jovanović, Aleksandar *see* **Mijajlović, Žarko, 2000b:03169**
Judd, Robert A dichotomy on Schreier sets. (English summary) **2000a:03076**
Juhász, István (*with* Soukup, Lajos; Szentmiklóssy, Z.) Combinatorial principles from adding Cohen reals. (English summary) **2000f:03137**
Kanai, Yasuo Distributivity and stationary reflections. **2000a:03077**
Karásek, Jiří Cardinal and ordinal arithmetics of n-ary relational systems and n-ary ordered sets. (English summary) **2000b:03167**
Kechris, Alexander S. (*with* Solecki, Sławomir; Todorčević, Stevo) Borel chromatic numbers. **2000e:03132**
Kolman, Oren (*with* Shelah, Saharon) A result related to the problem CN of Fremlin. (English summary) **2000e:03133**
Komjáth, P. A coloring result for the plane. (English summary) **2000f:03138**
Koszmider, Piotr Applications of p-functions. **2000d:03099**
— On the existence of strong chains in $\mathcal{P}(\omega_1)/\mathrm{Fin}$. (English summary) **2000b:03168**
Kowalsky, Hans-Joachim Filter und Auswahlmengen. [Filters and choice sets] **2000a:03078**
Matet, Pierre Combinatorics and forcing with distributive ideals. (English summary) **2000h:03089**
Matsubara, Yo (*with* Shioya, Masahiro) Nowhere precipitousness of some ideals. **2000a:03079**
— *see also* **Burke, Douglas R., (2000k:03011)**
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Mildenberger, Heike *see* **Fuchino, Sakaé et al., 2000g:03107**
Nowik, Andrzej Solutions of two problems concerning additive properties of strong measure zero sets. (English summary) **2000k:03096**
Rautila, Mika *see* **Huuskonen, Taneli et al., 2000k:03095**
Rosłanowski, Andrzej (*with* Shelah, Saharon) Norms on possibilities. II. More ccc ideals on 2^ω. (English summary) **2000c:03037**
— (*with* Shelah, Saharon) Norms on possibilities. I. Forcing with trees and creatures. **2000c:03036**
Scheepers, Marion The length of some diagonalization games. (English summary) **2000e:03134**
Schmerl, James H. Countable partitions of the sets of points and lines. (English summary) **2000g:03108**
Shelah, Saharon There may be no nowhere dense ultrafilter. (English summary) **2000e:03135**
— (*with* Spinas, Otmar) The distributivity numbers of finite products of $\mathcal{P}(\omega)/\mathrm{fin}$. (English summary) **2000b:03170**
— The lifting problem with the full ideal. (English summary) **2000g:03109**
— (*with* Zapletal, Jindřich) Canonical models for $\aleph_1$-combinatorics. (English summary) **2000m:03113**
— On full Suslin trees. **2000d:03100**
— Borel sets with large squares. (English summary) **2000i:03073**
— *see also* **Rosłanowski, Andrzej, 2000c:03036;2000c:03037;Kolman, Oren, 2000e:03133;Fuchino, Sakaé et al., 2000g:03107;Džamonja, Mirna, 2000i:03072** *and* **Brendle, Jörg, 2000m:03111**
Shioya, Masahiro Game-theoretic properties of the club filter on $P_\kappa\lambda$. (*see* **2000k:03011**)
— Splitting $P_\kappa\lambda$ into maximally many stationary sets. (English summary) (*see* **2000k:03011**)
— *see also* **Matsubara, Yo, 2000a:03079**
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Solecki, Sławomir *see* **Kechris, Alexander S. et al., 2000e:03132**
Soukup, Lajos Smooth graphs. (English summary) **2000j:03064**
— *see also* **Juhász, István et al., 2000f:03137**
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Thomas, Simon R. Groupwise density and the confinality of the infinite symmetric group. (English summary) **2000c:03038**
Todorčević, Stevo Basis problems in combinatorial set theory. **2000c:03039**
— (*with* Väänänen, Jouko) Trees and Ehrenfeucht-Fraïssé games. (English summary) **2000j:03065**
— (*with* Zapletal, Jindřich) On the Alaoglu-Birkhoff equivalence of posets. (English summary) **2000f:03139**
— *see also* **Kechris, Alexander S. et al., 2000e:03132**
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Vojtáš, Peter Series and Toeplitz matrices (a global implicit approach). (English summary) **2000i:03074**
— *see also* **Fuchino, Sakaé et al., 2000g:03107**
Zapletal, Jindřich Preserving σ-ideals. (English summary) **2000i:03075**
— *see also* **Todorčević, Stevo, 2000f:03139** *and* **Shelah, Saharon, 2000m:03113**
Zhang, Shu-guo On normal ideals on a regular uncountable cardinal. (English and Chinese summaries) **2000h:03090**

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— Between P-points and nowhere dense ultrafilters. (English summary) **2000m:03117**
Dow, Alan (*with* Zhou, Jin Yuan[1]) Two real ultrafilters on ω. (English summary) **2000i:54024**
Eisworth, Todd Selective ultrafilters and $\omega \to (\omega)^\omega$. (English summary) **2000a:03083**
Foreman, Matthew An $\aleph_1$-dense ideal on $\aleph_2$. (English summary) **2000e:03140**
García-Ferreira, Salvador (*with* Just, Winfried) Some remarks on the γ_p-property. (English summary) **2000b:54023**
Gasarch, William I. A survey of recursive combinatorics. **2000f:03127**
Jech, Thomas (*with* Shelah, Saharon) On reflection of stationary sets in $\mathcal{P}_\kappa\lambda$. (English summary) **2000j:03071**
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Koçak, M. (*with* Strauss, Dona Papert) An order relation on $\mathbf{R}^{\mathrm{LUC}}$. **2000a:54033**

Kojman, Menachem Exact upper bounds and their uses in set theory. (English summary) **2000b:03163**
— Representing embeddability as set inclusion. (English summary) **2000a:05067**
Lipparini, Paolo Every (λ^+, κ^+)-regular ultrafilter is (λ, κ)-regular. (English summary) **2000c:03026**
Mazur, Krzysztof A modification of Louveau and Veličković's construction for F_σ-ideals. (English summary) **2000j:03067**
Mildenberger, Heike (*with* Spinas, Otmar) Meeting infinitely many cells of a partition once. (English summary) **2000d:03107**
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Morgan, Charles James Glyn Higher gap morasses. IA. Gap-two morasses and condensation. (English summary) **2000b:03127**
Recław, Ireneusz (*with* Zakrzewski, Piotr) Strong Fubini properties of ideals. (English summary) **2000b:03174**
Samuels, Michael *see* **Samuels, P., 2000h:28006**
Samuels, P. (*with* Samuels, Michael) On some sets associated with the Cantor ternary set. **2000h:28006**
Scheepers, Marion The Bolzano-Weierstrass theorem and set-theory. (English summary) **2000f:03144**
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Strauss, Dona Papert *see* **Koçak, M., 2000a:54033**
Suzuki, Akira Non-existence of generic elementary embeddings into the ground model. (English summary) **2000a:03087**
Thomas, Simon R. Cofinalities of infinite permutation groups. (English summary) **2000a:20005**
Thomassé, Stéphan On better-quasi-ordering countable series-parallel orders. (English summary) **2000j:06001**
Tyszka, Apoloniusz On the minimal cardinality of a subset of **R** which is not of first category. (English summary) **2000k:26002**
Yoshinobu, Yasuo On strength of precipitousness of some ideals and towers. (English summary) **2000f:03153**
Zakrzewski, Piotr *see* **Recław, Ireneusz, 2000b:03174**
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03E10 Ordinal and cardinal numbers

Cummings, James Large cardinal properties of small cardinals. (English summary) **2000d:03101**
Kipiani, Archil One abstract characterization of intervals of cardinal numbers. (English and Polish summaries) **2000a:03080**
Lemire, Denis Remarques sur les surréels dont la forme normale se décompose indéfiniment. (English and French summaries) [Remarks on surreal numbers whose normal form has infinite decomposition] **2000g:03110**
Villaveces, Andrés $\aleph_\omega$ from aleph to omega. (Spanish. English and Spanish summaries) **2000d:03102**

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Berarducci, Alessandro Factorization in generalized power series. (English summary) **2000c:13033**
Darby, Carl Negative partition relations for ordinals ω^{ω^ω}. (English summary) **2000m:03110**
Foreman, Matthew An $\aleph_1$-dense ideal on $\aleph_2$. (English summary) **2000e:03140**
Hirst, Jeffry L. Reverse mathematics and ordinal multiplication. (English summary) **2000d:03151**
Holz, Michael (*with* Steffens, Karsten; Weitz, E.) ★ Introduction to cardinal arithmetic. (English summary) **2000h:03001**
Jipsen, Peter (*with* Rose, Henry) Partition complete Boolean algebras and almost compact cardinals. (English summary) **2000c:06027**
Leung, Denny H. (*with* Tang, Wee-Kee) Symmetric sequence subspaces of $C(\alpha)$. II. (English summary) **2000i:46005**
— Symmetric sequence subspaces of $C(\alpha)$. (English summary) **2000i:46004**
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Sagan, Hans Skating along the edge of reason. (English summary) **2000b:26010**
Shelah, Saharon (*with* Spinas, Otmar) The distributivity numbers of finite products of $\mathcal{P}(\omega)/\mathrm{fin}$. (English summary) **2000b:03170**
Šikić, Zvonimir On numbers and classes. (English and Croatian summaries) **2000c:03004**
Spinas, Otmar *see* **Shelah, Saharon, 2000b:03170**
Steffens, Karsten *see* **Holz, Michael et al., 2000h:03001**
Tang, Wee-Kee *see* **Leung, Denny H., 2000i:46005**
Weitz, E. *see* **Holz, Michael et al., 2000h:03001**

03E15 Descriptive set theory [see also 28A05, 54H05]

Becker, Howard (*with* Dougherty, Randall) On disjoint Borel uniformizations. (English summary) **2000i:03076**
— Ideals without ccc and without property (M). (English summary) **2000m:03114**
Bossard, Benoit (*with* López, Ginés) The point of continuity property: descriptive complexity and ordinal index. (English summary) **2000f:03140**
Dougherty, Randall (*with* Hjorth, Greg) Reducibility and nonreducibility between l^p equivalence relations. (English summary) **2000d:03103**
— *see also* **Becker, Howard, 2000i:03076**
Duparc, Jacques The normal form of Borel sets. II. Borel sets of infinite rank. (English and French summaries) **2000e:03136**
Hirschorn, James Towers of Borel functions. (English summary) **2000c:03040**
Hjorth, Greg (*with* Kechris, Alexander S.; Louveau, Alain) Borel equivalence relations induced by actions of the symmetric group. (English summary) **2000a:03081**
— When is an equivalence relation classifiable? (English summary) **2000b:03171**
— Orbit cardinals: on the effective cardinalities arising as quotient spaces of the form X/G where G acts on a Polish space X. (English summary) **2000h:03091**
— ★ Classification and orbit equivalence relations. (English summary) **2000k:03097**
— (*with* Kechris, Alexander S.) The complexity of the classification of Riemann surfaces and complex manifolds. (English summary) **2000m:03115**
— *see also* **Dougherty, Randall, 2000d:03103**
Jackson, Stephen C. A computation of δ^1_3. (English summary) **2000d:03104**
Kanoveĭ, V. G. Ulm classification of analytic equivalence relations in generic universes. (English summary) **2000a:03082**
— Linearization of definable order relations. (English summary) **2000k:03098**
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03E20 Other classical set theory (including functions, relations, and set algebra)

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Doets, Kees Relatives of the Russell paradox. (English summary) **2000g:03113**
Eisworth, Todd Selective ultrafilters and $\omega \to (\omega)^\omega$. (English summary) **2000a:03083**
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Gibson, Peter C. (*with* Zaguia, Imed) Endomorphism classes of ordered sets, graphs and lattices. (English summary) **2000b:06014**
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03E25 Axiom of choice and related propositions

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03E35 Consistency and independence results

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Gilchrist, Martin (*with* Shelah, Saharon) The consistency of $\mathrm{ZFC} + 2^{\aleph_0} > \aleph_\omega + \mathcal{J}(\aleph_2) = \mathcal{J}(\aleph_\omega)$. **2000d:03112**
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— (*with* Shelah, Saharon) Ultrafilters on ω—their ideals and their cardinal characteristics. (English summary) **2000m:03111**
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— *see also* **Balcerzak, Marek, 2000f:28003**
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03E40 Other aspects of forcing and Boolean-valued models

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03E55 Large cardinals

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03E65 Other hypotheses and axioms

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03E70 Nonclassical and second-order set theories

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Intuitionistic Fuzzy Sets ★ Third International Conference on Intuitionistic Fuzzy Sets. Vol. 1. **2000m:03009**
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Rough Sets and Current Trends in Computing ★ Rough sets and current trends in computing. **2000j:68007**
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03E75 Applications of set theory

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03E99 None of the above, but in this section

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03Fxx Proof theory and constructive mathematics

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(Bennet, Christian) *see* **Arithmetization of metamathematics**, **2000h:03004**
(Lindström, Per) *see* **Arithmetization of metamathematics**, **2000h:03004**

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Arithmetization of metamathematics ★ The arithmetization of metamathematics. **2000h:03004**
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Lindström, Per ★ The arithmetization of metamathematics. **2000h:03004**
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03F03 Proof theory, general

Avron, Arnon Two types of multiple-conclusion systems. (English summary) **2000b:03199**
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Murawski, Roman ★ Recursive functions and metamathematics. (English summary) **2000k:03087**
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03F05 Cut-elimination and normal-form theorems

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Bierman, G. M. *see* **Urban, C.**, **2000i:03084**
Borisavljević, Mirjana A cut-elimination proof in intuitionistic predicate logic. (English summary) **2000m:03140**
Buss, Samuel R. (*with* Mints, Grigoriĭ Efroimovich) The complexity of the disjunction and existential properties in intuitionistic logic. (English summary) **2000f:03168**
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Negri, Sara (*with* von Plato, Jan) Cut elimination in the presence of axioms. (English summary) **2000c:03043**
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— (*with* Ferrari, Mauro[1]; Miglioli, Pierangelo) Duplication-free tableau calculi and related cut-free sequent calculi for the interpolable propositional intermediate logics. (English summary) **2000i:03039**
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Barendregt, Henk (*with* Ghilezan, Silvia) Lambda terms for natural deduction, sequent calculus and cut elimination. (English summary) **2000m:03039**
Blankertz, Benjamin (*with* Weiermann, Andreas) A uniform approach for characterizing the provably total number-theoretic functions of KPM and (some of) its subsystems. (English summary) **2000f:03176**
Bull, Robert Logics without contraction. I. **2000j:03009**
Buss, Samuel R. An introduction to proof theory. **2000b:03200**
Carbone, Alessandra Turning cycles into spirals. (English summary) **2000d:03143**
— Cycling in proofs and feasibility. (English summary) **2000j:03081**
Ciabattoni, Agata *see* **Baaz, Matthias et al.**, **2000f:03077**
(Dezani-Ciancaglini, Mariangiola) *see* **Theories of types and proofs**, **2000h:03010**
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Dyckhoff, Roy A deterministic terminating sequent calculus for Gödel-Dummett logic. (English summary) **2000e:03022**

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(Galmiche, Didier) *see* **Perrier, Guy, 2000b:03042**
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Sandner, Enno From linear proofs to direct logic with exponentials. (English summary) **2000a:03025**
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Workshop:
Theories of Types and Proofs ★ Theories of types and proofs. **2000h:03010**

03F07 Structure of proofs

Carbone, Alessandra Cycling in proofs and feasibility. (English summary) **2000j:03081**
Dyckhoff, Roy (*with* Pinto, Luis) Permutability of proofs in intuitionistic sequent calculi. (English summary) **2000f:03170**
Finger, Marcelo Towards structurally-free theorem proving. (English summary) **2000d:03144**
Goré, Rajeev Substructural logics on display. (English summary) **2000a:03099**
Nadathur, Gopalan Correspondences between classical, intuitionistic and uniform provability. (English summary) **2000m:03142**
Nepeĭvoda, N. N. Incomplete proof structures and their application. (Russian. English summary) (*see* **2000h:03006**)
Pinto, Luís *see* **Dyckhoff, Roy, 2000f:03170**
Schwichtenberg, Helmut Termination of permutative conversions in intuitionistic Gentzen calculi. (English summary) **2000f:03171**
Sidorenko, E. A. Normalized deductions and a generalization of the deduction theorem. (Russian. English summary) (*see* **2000h:03006**)
Stone, Matthew Representing scope in intuitionistic deductions. (English summary) **2000d:03145**
Troelstra, A. S. Marginalia on sequent calculi. (English summary) **2000h:03108**

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Bunder, Martin W. Logics without contraction. II. **2000j:03010**
Buss, Samuel R. Bounded arithmetic, proof complexity and two papers of Parikh. (English summary) **2000e:03160**
Carbone, Alessandra Turning cycles into spirals. (English summary) **2000d:03143**
Dyckhoff, Roy A deterministic terminating sequent calculus for Gödel-Dummett logic. (English summary) **2000e:03022**
Egly, Uwe (*with* Schmitt, Stephan) Intuitionistic proof transformations and their application to constructive program synthesis. (English summary) **2000d:03013**
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Hähnle, Reiner *see* **Beckert, Bernhard, 2000m:03034**
Ishtiaq, S. S. (*with* Pym, David J.) A relevant analysis of natural deduction. (English summary) **2000k:03059**
Jäger, Gerhard (*with* Strahm, Thomas) Bar induction and ω model reflection. (English summary) **2000f:03178**
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Konikowska, Beata Natural deduction systems for Rosser-Turquette many-valued logic. (English summary) **2000k:03063**
Oner, Tahsin *see* **Rybakov, Vladimir V. et al., 2000h:03045**
Prawitz, Dag Truth and objectivity from a verificationist point of view. (*see* **2000j:03008**)
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Rybakov, Vladimir V. (*with* Kiyatkin, Vladimir R.; Oner, Tahsin) On finite model property for admissible rules. (English summary) **2000h:03045**
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03F10 Functionals in proof theory

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Voda, Paul J. A simple ordinal recursive normalization of Gödel's T. **2000k:03128**

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Leivant, Daniel Ramified recurrence and computational complexity. III. Higher type recurrence and elementary complexity. (English summary) **2000b:03148**
Wainer, Stanley Scott Accessible segments of the fast growing hierarchy. (English summary) **2000g:03127**

03F15 Recursive ordinals and ordinal notations

Arai, Toshiyasu An introduction to finitary analyses of proof figures. (English summary) **2000k:03129**
Avigad, Jeremy (*with* Sommer, Richard) The model-theoretic ordinal analysis of theories of predicative strength. (English summary) **2000f:03172**
Beklemishev, L. D. Another pathological well-ordering. (English summary) **2000k:03130**
Carlson, Timothy J. Ordinal arithmetic and Σ_1-elementarity. (English summary) **2000k:03131**
Jäger, Gerhard (*with* Kahle, Reinhard; Setzer, Anton; Strahm, Thomas) The proof-theoretic analysis of transfinitely iterated fixed point theories. (English summary) **2000f:03173**
Kahle, Reinhard *see* **Jäger, Gerhard et al., 2000f:03173**
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Bigorajska, Teresa (*with* Kotlarski, Henryk) A partition theorem for α-large sets. (English summary) **2000d:05012**
Blankertz, Benjamin (*with* Weiermann, Andreas) A uniform approach for characterizing the provably total number-theoretic functions of KPM and (some of) its subsystems. (English summary) **2000f:03176**
Danner, Norman Ordinals and ordinal functions representable in the simply typed lambda calculus. (English summary) **2000g:03031**
Ikeda, Kazuma Normal forms for derivations in Arai's AI^{-}_{ζ}. (English summary) **2000b:03209**
Kotlarski, Henryk *see* **Bigorajska, Teresa, 2000d:05012**
Setzer, Anton An introduction to well-ordering proofs in Martin-Löf's type theory. (*see* **2000k:03017**)
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Takahashi, Yasuhiro Model theoretic ordinal analysis of ATR_0. (Japanese) (*see* **2000k:03015**)
Touzet, Hélène Encoding the hydra battle as a rewrite system. (English summary) **2000a:68073**
Tupailo, Sergei Finitary reductions for local predicativity. I. Recursively regular ordinals. (English summary) **2000m:03141**
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Weiermann, Andreas What makes a (pointwise) subrecursive hierarchy slow growing? (English summary) **2000h:03081**
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03F20 Complexity of proofs

Bonet, Maria Luisa (*with* Galesi, Nicola) Linear lower bounds and simulations in Frege systems with substitutions. (English summary) **2000h:03109**
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— Propositional proof complexity—an introduction. **2000g:03129**
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Gordeev, Lev Variable compactness in 1-order logic. (English summary) **2000j:03082**
Krajíček, Jan Discretely ordered modules as a first-order extension of the cutting planes proof system. (English summary) **2000d:03146**
— Interpolation by a game. (English summary) **2000c:03044**
Parikh, Rohit Length and structure of proofs. **2000a:03100**
Pitassi, Toniann Unsolvable systems of equations and proof complexity. (English summary) **2000b:03206**
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Razborov, A. A. Lower bounds for the polynomial calculus. (English summary) **2000e:03158**
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— (*with* Leitsch, Alexander) Cut normal forms and proof complexity. (English summary) **2000e:03157**
Buss, Samuel R. Bounded arithmetic, proof complexity and two papers of Parikh. (English summary) **2000e:03160**
— (*with* Mints, Grigoriĭ Efroimovich) The complexity of the disjunction and existential properties in intuitionistic logic. (English summary) **2000f:03168**
Carbone, Alessandra Turning cycles into spirals. (English summary) **2000d:03143**
— Duplication of directed graphs and exponential blow up of proofs. (English summary) **2000i:03083**
— Cycling in proofs and feasibility. (English summary) **2000j:03081**
Cook, Stephen A. (*with* Soltys, Michael) Boolean programs and quantified propositional proof systems. (English summary) **2000i:68057**
Dzhaparidze, G. K. (*with* de Jongh, Dick) The logic of provability. **2000a:03107**
Egly, Uwe Quantifiers and the system KE: some surprising results. (English summary) **2000g:03025**
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Rathjen, Michael The realm of ordinal analysis. **2000m:03143**
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Woodin, W. Hugh The Tower of Hanoi. (*see* **2000j:03008**)
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03F25 Relative consistency and interpretations

Coquand, Thierry (*with* Hofmann, Martin) A new method for establishing conservativity of classical systems over their intuitionistic version. (English summary) **2000j:03083**
Hofmann, Martin *see* **Coquand, Thierry, 2000j:03083**
Vuković, Mladen The interpretability logic ILF. (English and Croatian summaries) **2000e:03159**

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Beklemishev, L. D. Classification of propositional provability logics. **2000m:03152**
Burgess, John P. On a consistent subsystem of Frege's *Grundgesetze*. (English summary) **2000g:03016**
Dzhaparidze, G. K. (*with* de Jongh, Dick) The logic of provability. **2000a:03107**
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Hodges, Wilfrid (*with* Nies, André) Noninterpretability of infinite linear orders. (English summary) **2000e:03093**
Jäger, Gerhard (*with* Strahm, Thomas) Bar induction and ω model reflection. (English summary) **2000f:03178**
de Jongh, Dick *see* **Dzhaparidze, G. K., 2000a:03107**
Nies, André *see* **Hodges, Wilfrid, 2000e:03093**
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Rathjen, Michael (*with* Griffor, Edward R.; Palmgren, Erik) Inaccessibility in constructive set theory and type theory. (English summary) **2000b:03027**
Strahm, Thomas *see* **Jäger, Gerhard, 2000f:03178**
Visser, Albert Interpretations over Heyting's arithmetic. (English summary) **2000k:03133**

03F30 First-order arithmetic and fragments

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Buss, Samuel R. First-order proof theory of arithmetic. **2000b:03208**
— Bounded arithmetic, proof complexity and two papers of Parikh. (English summary) **2000e:03160**
Cegielski, Patrick (*with* Richard, Denis) On arithmetical first-order theories allowing encoding and decoding of lists. (English summary) **2000d:03147**
Chiari, Mario (*with* Krajíček, Jan) Witnessing functions in bounded arithmetic and search problems. (English summary) **2000c:03045**
— (*with* Krajíček, Jan) Lifting independence results in bounded arithmetic. (English summary) **2000f:03174**
Christian, C. C. Eine Bemerkung zum Begriff des Standardmodells für den Peanoformalismus. [A remark on the concept of the standard model for the Peano formalism] **2000m:03145**
Clote, Peter Addendum to: "A note on the MacDowell-Specker theorem" [Fund. Math. **127** (1987), no. 2, 163–170; MR 88d:03073]. **2000d:03148**
D'Aquino, Paola Solving Pell equations locally in models of $I\Delta_0$. (English summary) **2000a:03102**
Ferreira, Fernando Two general results on intuitionistic bounded theories. (English summary) **2000m:03146**
Ikeda, Kazuma Normal forms for derivations in Arai's AI_ζ^-. (English summary) **2000b:03209**
Johannsen, Jan A remark on independence results for sharply bounded arithmetic. (English summary) **2000b:03210**
Kotlarski, Henryk Other proofs of old results. (English summary) **2000a:03103**
Krajíček, Jan Extensions of models of PV. (English summary) **2000f:03175**
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Kunen, Kenneth Nonconstructive computational mathematics. (English summary) **2000b:03211**
Kuroda, Satoru On a theory for AC^0 and the strength of the induction scheme. (English summary) **2000a:03104**
McAllister, Alex M. Completions of PA: models and enumerations of representable sets. (English summary) **2000b:03212**
Pollett, Chris Structure and definability in general bounded arithmetic theories. (English summary) **2000k:03132**
Rázga, Tamás A new, general theory of natural numbers, disputing even the Peano arithmetic. (Hungarian. English summary) **2000e:03161**
Richard, Denis *see* **Cegielski, Patrick, 2000d:03147**
Švejdar, Vítězslav Arithmetical classification of the set of all provably recursive functions. (English summary) **2000m:03147**
Takeuti, Gaisi Incompleteness theorems and S_2^i versus S_2^{i+1}. **2000j:03084**
— (*with* Yasumoto, Masahiro) Forcing on bounded arithmetic. II. **2000c:03046**
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Almulla, Mohammed (*with* Hanna, L. A.-M.) A domain-independent system for modeling number theory using first-order predicate logic. (English and Arabic summaries) **2000d:68131**
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Chong, Chi Tat (*with* Yang, Yue) Σ_2 induction and infinite injury priority argument. I. Maximal sets and the jump operator. **2000a:03065**
— (*with* Qian, Lei; Yang, Yue) The Friedberg jump inversion theorem revisited: a study of undefinable cuts. (English summary) **2000m:03101**
Comon, Hubert (*with* Jurski, Yan) Multiple counters automata, safety analysis and Presburger arithmetic. (English summary) (*see* **2000h:68010**)
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Dzierzgowski, Daniel Finite sets and natural numbers in intuitionistic TT. (English summary) **2000d:03007**
Fairtlough, Matt (*with* Wainer, Stanley Scott) Hierarchies of provably recursive functions. **2000a:03063**
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Ferreira, Fernando A note on finiteness in the predicative foundations of arithmetic. (English summary) **2000d:03149**
Fouché, W. L. (*with* Pretorius, L. M.; Swanepoel, Christiaan Jacobus) Partition theorems for factorisations of ascending parameter words. (English summary) **2000b:68178**
Hájek, Petr[1] (*with* Pudlák, Pavel) ★ Metamathematics of first-order arithmetic. **2000m:03003**
Halbach, Volker Conservative theories of classical truth. (English summary) **2000f:03180**
Hanna, L. A.-M. *see* **Almulla, Mohammed, 2000d:68131**
Hazen, A. P. *see* **Burgess, John P., 2000e:03019**
(Hilbert, David[1]) *see* **Niebergall, Karl-Georg, 2000g:03011**
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Ikeda, Kazuma Normal form theorems related to LK proof diagrams. (Japanese) (*see* **2000k:03015**)
Jurski, Yan *see* **Comon, Hubert, (2000h:68010)**
Kohlenbach, Ulrich On the arithmetical content of restricted forms of comprehension, choice and general uniform boundedness. (English summary) **2000h:03104**
Krivtsov, V. N. Note on extensions of Heyting's arithmetic by adding the "creative subject". (English summary) **2000f:03183**
Kukula, James H. *see* **Shiple, Thomas R. et al., (2000h:68010)**
Kuroda, Satoru Complexity theory and bounded arithmetic for truly feasible computation. (*see* **2000k:03015**)
Maes, Arnaud An automata-theoretic decidability proof for first-order theory of $\langle \mathbf{N}, <, P \rangle$ with morphic predicate P. (English summary) **2000m:03033**
Moniri, Mojtaba *see* **Ardeshir, Mohammad, 2000h:03116**
Niebergall, Karl-Georg (*with* Schirn, Matthias) Hilbert's finitism and the notion of infinity. **2000g:03011**
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Pudlák, Pavel *see* **Hájek, Petr[1], 2000m:03003**
Qian, Lei *see* **Chong, Chi Tat et al., 2000m:03101**
Raatikainen, Panu On interpreting Chaitin's incompleteness theorem. (English summary) **2000b:68102**
Ranjan, Rajeev K. *see* **Shiple, Thomas R. et al., (2000h:68010)**
Ruitenburg, Wim Basic predicate calculus. (English summary) **2000d:03009**
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Shiple, Thomas R. (*with* Kukula, James H.; Ranjan, Rajeev K.) A comparison of Presburger engines for EFSM reachability. (English summary) (*see* **2000h:68010**)
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Tada, Mitsuru (*with* Shizuya, Hiroki) On the Σ^b_1-definability of integer factoring. (English summary) **2000k:94038**
Wainer, Stanley Scott *see* **Fairtlough, Matt, 2000a:03063**
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Yang, Yue *see* **Chong, Chi Tat et al., 2000a:03065** *and* **2000m:03101**

03F35 Second- and higher-order arithmetic and fragments [see also 03B30]

Blankertz, Benjamin (*with* Weiermann, Andreas) A uniform approach for characterizing the provably total number-theoretic functions of KPM and (some of) its subsystems. (English summary) **2000f:03176**
de Castro Korgi, Rodrigo General combinatorial principles in second order bounded arithmetic. **2000f:03177**
Downey, Rodney G. (*with* Lempp, Steffen) The proof-theoretic strength of the Dushnik-Miller theorem for countable linear orders. (English summary) **2000m:03148**
Dzierzgowski, Daniel Finite sets and natural numbers in intuitionistic TT without extensionality. (English summary) **2000b:03213**
Ferreira, Fernando A note on finiteness in the predicative foundations of arithmetic. (English summary) **2000d:03149**
Gasarch, William I. (*with* Hirst, Jeffry L.) Reverse mathematics and recursive graph theory. (English summary) **2000d:03150**
Giusto, Mariagnese (*with* Marcone, Alberto) Lebesgue numbers and Atsuji spaces in subsystems of second-order arithmetic. (English summary) **2000a:03105**
Hirst, Jeffry L. Reverse mathematics and ordinal multiplication. (English summary) **2000d:03151**
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— *see also* **Gasarch, William I., 2000d:03150**
Humphreys, A. James (*with* Simpson, Stephen G.) Separation and weak König's lemma. (English summary) **2000k:03135**
Jäger, Gerhard (*with* Strahm, Thomas) Bar induction and ω model reflection. (English summary) **2000f:03178**
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— Relative constructivity. **2000i:03085**
— A note on Goodman's theorem. (English summary) **2000m:03150**
— Things that can and things that cannot be done in PRA. (English summary) **2000m:03149**
Lempp, Steffen *see* **Downey, Rodney G., 2000m:03148**
Marcone, Alberto *see* **Giusto, Mariagnese, 2000a:03105**
Pohlers, Wolfram Subsystems of set theory and second order number theory. **2000a:03106**
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Solomon, Reed Ordered groups: a case study in reverse mathematics. **2000e:03163**
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Takahashi, Yasuhiro Model theoretic ordinal analysis of ATR_0. (Japanese) (*see* **2000k:03015**)
Tanaka, Kazuyuki[1] (*with* Yamazaki, Takeshi) Second-order arithmetic and bounded axioms of choice. (Japanese) (*see* **2000k:03015**)
Weiermann, Andreas How is it that infinitary methods can be applied to finitary mathematics? Gödel's T: a case study. (English summary) **2000d:03153**
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Avigad, Jeremy (*with* Feferman, Solomon) Gödel's functional ("Dialectica") interpretation. **2000b:03204**
Boolos, George (*with* Heck, Richard G., Jnr.) *Die Grundlagen der Arithmetik*, §§82–3. **2000k:03003**
de Castro Korgi, Rodrigo Recursion in second order bounded arithmetic. (English and Spanish summaries) **2000g:03096**
Coquand, Thierry (*with* Hofmann, Martin) A new method for establishing conservativity of classical systems over their intuitionistic version. (English summary) **2000j:03083**
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Fruchart, Thomas (*with* Longo, Giuseppe) Carnap's remarks on impredicative definitions and the genericity theorem. **2000m:03020**
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Heck, Richard G., Jnr. The finite and the infinite in Frege's *Grundgesetze der Arithmetik*. **2000k:03004**
— *see also* **Boolos, George, 2000k:03003**
Hofmann, Martin *see* **Coquand, Thierry, 2000j:03083**
Kohlenbach, Ulrich On the arithmetical content of restricted forms of comprehension, choice and general uniform boundedness. (English summary) **2000h:03104**
Longo, Giuseppe *see* **Fruchart, Thomas, 2000m:03020**
Solomon, Reed Reverse mathematics and fully ordered groups. (English summary) **2000i:03013**

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03F40 Gödel numberings in proof theory

Dzhaparidze, G. K. (*with* de Jongh, Dick) The logic of provability. **2000a:03107**
Halbach, Volker Conservative theories of classical truth. (English summary) **2000f:03180**
de Jongh, Dick *see* **Dzhaparidze, G. K., 2000a:03107**

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Beklemishev, L. D. Classification of propositional provability logics. **2000m:03152**
Eisenstadt, Stuart A. *see* **Simon, Herbert A., 2000j:03007**
(Gödel, Kurt Friedrich) *see* **McCall, Storrs**
Hintikka, Jaakko Truth definitions, Skolem functions and axiomatic set theory. **2000a:03008**
McCall, Storrs Can a Turing machine know that the Gödel sentence is true?
Sidon, T. L. The Craig interpolation property for operator logics of proofs. (Russian. Russian summary) **2000f:03062**
Simon, Herbert A. (*with* Eisenstadt, Stuart A.) Human and machine interpretation of expressions in formal systems. (English summary) **2000j:03007**

03F45 Provability logics and related algebras (e.g., diagonalizable algebras) [see also 03B45, 03G25, 06E25]

Beklemishev, L. D. Notes on local reflection principles. **2000m:03151**
— Classification of propositional provability logics. **2000m:03152**
Èsakia, L. L. Provability interpretations of intuitionistic logic. (Russian. English summary) (*see* **2000h:03006**)
Luchi, Duccio (*with* Montagna, Franco) An operational logic of proofs with positive and negative information. (English summary) **2000k:03136**
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Yavorskiĭ, R. È. Axiom systems and models for first-order theories with a provability operator. (Russian. Russian summary) **2000d:03037**

03F50 Metamathematics of constructive systems

Baratella, Stefano (*with* Berardi, Stefano) Yet another constructivization of classical logic. (*see* **2000k:03017**)
Berardi, Stefano *see* **Baratella, Stefano, (2000k:03017)**
Dyckhoff, Roy (*with* Pinto, Luís) Proof search in constructive logics. (English summary) **2000g:03132**
Negri, Sara Sequent calculus proof theory of intuitionistic apartness and order relations. (English summary) **2000m:03153**
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Strahm, Thomas First steps into metapredicativity in explicit mathematics. (English summary) **2000k:03137**
Wehmeier, Kai F. Constructing Kripke models of certain fragments of Heyting's arithmetic. (English summary) **2000d:03154**

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Arai, Toshiyasu Some results on cut-elimination, provable well-orderings, induction and reflection. (English summary) **2000b:03202**
Bayu Surarso (*with* Ono, Hiroakira) Cut elimination in noncommutative substructural logics. (English summary) **2000a:03096**
Buss, Samuel R. An introduction to proof theory. **2000b:03200**
Constable, Robert L. Types in logic, mathematics and programming. **2000d:68132**
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Dymetman, Marc Group theory and computational linguistics. (English summary) **2000b:68235**
Fu, Yuxi Variations on mobile processes. (English summary) **2000e:68120**
(Galmiche, Didier) *see* **Perrier, Guy, 2000b:03042**
Goré, Rajeev Gaggles, Gentzen and Galois: how to display your favourite substructural logic. (English summary) **2000a:03095**
Griffor, Edward R. *see* **Rathjen, Michael et al., 2000b:03027**
Höhle, Ulrich GL-quantales: Q-valued sets and their singletons. (English summary) **2000b:03229**
Ishtiaq, S. S. (*with* Pym, David J.) A relevant analysis of natural deduction. (English summary) **2000k:03059**
Kaneda, Yukio[2] *see* **Tamura, Naoyuki, (2000b:68008)**
Kohlenbach, Ulrich A note on Goodman's theorem. (English summary) **2000m:03150**
Lombard, Melinda (*with* Vesley, Richard) A common axiom set for classical and intuitionistic plane geometry. (English summary) **2000b:03035**
Mints, Grigoriĭ Efroimovich Linear lambda-terms and natural deduction. **2000b:03049**
(Okada, Mitsuhiro) *see* **Theories of types and proofs, 2000h:03010**
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Palmgren, Erik Developments in constructive nonstandard analysis. (English summary) **2000b:03218**
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Pym, David J. *see* **Ishtiaq, S. S., 2000k:03059**
Rathjen, Michael (*with* Griffor, Edward R.; Palmgren, Erik) Inaccessibility in constructive set theory and type theory. (English summary) **2000b:03027**
— The superjump in Martin-Löf type theory. (English summary) **2000k:03027**
Roversi, Luca Concrete syntax for intuitionistic light affine logic with polymorphic type assignment. (English summary) (*see* **2000c:68007**)
(Sambin, Giovanni) *see* **Twenty-five years of constructive type theory, 2000k:03017**
Sandner, Enno From linear proofs to direct logic with exponentials. (English summary) **2000a:03025**
Setzer, Anton Well-ordering proofs for Martin-Löf type theory. (English summary) **2000e:03156**
(Smith, Jan M.) *see* **Twenty-five years of constructive type theory, 2000k:03017**
Streicher, Thomas Inductive construction of repletion. (English summary) **2000g:03079**
(Takahashi, Masako) *see* **Theories of types and proofs, 2000h:03010**
Tamura, Naoyuki (*with* Kaneda, Yukio[2]) Extension of WAM for a linear logic programming language. (English summary) (*see* **2000b:68008**)
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Voronkov, Andrei Model theory based on the notion of truth in the constructive sense [MR 90d:03056]. (*see* **2000h:03007**)

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Twenty-five Years of Constructive Type Theory ★ Twenty-five years of constructive type theory. **2000k:03017**
Theories of types and proofs ★ Theories of types and proofs. **2000h:03010**
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Theories of Types and Proofs ★ Theories of types and proofs. **2000h:03010**

03F52 Linear logic and other substructural logics [see also 03B47]

Abrusci, V. Michele (*with* Maringelli, Elena) A new correctness criterion for cyclic proof nets. (English summary) **2000d:03155**
Akama, Yohji *see* **Mikami, Seikoh, (2000k:03015)**
Albrecht, David (*with* Bäuerle, Frank A.; Crossley, John N.; Jeavons, John S.) Curry-Howard terms for linear logic. (English summary) **2000d:03156**
Avron, Arnon Multiplicative conjunction and an algebraic meaning of contraction and weakening. (English summary) **2000h:03110**
Barber, Andrew (*with* Gardner, Philippa; Hasegawa, Masahito; Plotkin, Gordon) From action calculi to linear logic. (English summary) **2000h:03111**
Barreiro, Nuno (*with* Ehrhard, Thomas) Quantitative semantics revisited (extended abstract). (English summary) (*see* **2000g:03005**)
Bäuerle, Frank A. *see* **Albrecht, David et al., 2000d:03156**
Bechet, Denis Minimality of the correctness criterion for multiplicative proof nets. (English summary) **2000d:03157**
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03F55 Intuitionistic mathematics

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03F60 Constructive and recursive analysis [see also 03B30, 03D45, 26E40, 46S30, 47S30]

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Computability and Complexity in Analysis ★ Computability and complexity in analysis. **2000b:03007**
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Krauss, Peter H. Hypothetical extensions of constructive mathematics. (*see* **2000m:03012**)
Milosevic, Radoslav (*with* Romano, Daniel Avraám) Left cocongruences defined by coradicals of principal right consistent subsets of a semigroup with apartness. (English summary) **2000b:03220**
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Vickers, Steven Topology via constructive logic. (English summary) (*see* **2000e:03003**)
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Bridges, Douglas S. Constructive truth in practice. (*see* **2000j:03008**)
— (*with* Reeves, Steve) Constructive mathematics in theory and programming practice. (English summary) **2000h:03013**
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Fletcher, Peter ★ Truth, proof and infinity. (English summary) **2000c:03011**
Griffor, Edward R. *see* **Rathjen, Michael et al.**, **2000b:03027**
Hellman, Geoffrey Beyond definitionism—but not too far beyond. **2000d:00005**
Ishihara, Hajime A note on the Gödel-Gentzen translation. (English summary) **2000k:03029**
Kohlenbach, Ulrich Proof theory and computational analysis. (English summary) **2000e:03170**
Kudaĭbergenov, K. Zh. On extensions of constructive linear orders. (Russian. Russian summary) **2000m:03088**
Minari, Pierluigi Theories of types and names with positive stratified comprehension. (English summary) **2000g:03036**
Palmgren, Erik On universes in type theory. (*see* **2000k:03017**)
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Troelstra, A. S. From constructivism to computer science. **2000c:03003**
Valentini, Silvio The forget-restore principle: a paradigmatic example. (*see* **2000k:03017**)
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03F99 None of the above, but in this section

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03Gxx Algebraic logic

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03G05 Boolean algebras [see also 06Exx]

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Flum, Jörg An extension of the lemma of Rasiowa and Sikorski. (English summary) **2000b:03222**
Ibaraki, Toshihide Partially defined Boolean functions with applications to data analysis: a survey. (English summary) **2000k:03148**
Levchenkov, V. S. Boolean equations in Boolean algebra and set theory. (Russian) **2000m:03158**
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Brusentsov, N. P. (*with* Vladimirova, Yu. S.) Solution of Boolean equations. (English summary) **2000b:06041**
Dahn, Bernd I. Robbins algebras are Boolean: a revision of McCune's computer-generated solution of Robbins problem. (English summary) **2000a:06061**
Emamy-K., M. Reza Geometry of cut-complexes and threshold logic. (English summary) **2000b:06043**
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Givant, S. (*with* Venema, Yde) The preservation of Sahlqvist equations in completions of Boolean algebras with operators. (English summary) **2000e:06019**
Gnani, Giuliana (*with* Mazzanti, Giuliano) A note on the fixed point for the polynomials of a Boolean algebra with an operator of endomorphism. (English summary) **2000d:06018**
Klunder, B. Representable pseudo-interior algebras. (English summary) **2000b:08003**
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Mijajlović, Žarko On free Boolean vectors. (English summary) **2000e:03027**
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Padmanabhan, R. (*with* Penner, P.) Lattice ordered polynomial algebras. (English summary) **2000b:06030**
Pal'chunov, D. E. Prime and countably saturated models of the theory of Boolean algebras with distinguished ideals [MR 96c:03079]. (Russian. Russian summary) (*see* **2000m:03014**)
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Penner, P. *see* **Padmanabhan, R., 2000b:06030**
Rudeanu, Sergiu On certain set equations. (English summary) **2000a:06062**
Shelah, Saharon (*with* Spinas, Otmar) On tightness and depth in superatomic Boolean algebras. (English summary) **2000h:03094**
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Stokes, Tim *see* **Gardner, B. J., 2000k:16065**
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Venema, Yde *see* **Givant, S., 2000e:06019**
Vladimirova, Yu. S. *see* **Brusentsov, N. P., 2000b:06041**
Wos, Larry Automating the search for elegant proofs. (English summary) **2000b:68204**
Yamaguchi, Jinsei Boolean embedding: from a partially ordered structure to a Boolean algebra. (English summary)

03G10 Lattices and related structures [see also 06Bxx]

Jun, Young Bae *see* **Kim, Seon Yu et al., 2000k:03150**
Kim, Seon Yu (*with* Roh, Eun Hwan; Jun, Young Bae) On ultra filters of lattice implication algebras. (English summary) **2000k:03150**
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Wang, Guo Jun[1] Implication lattices and a fuzzy topological representation theorem for them. (Chinese. English and Chinese summaries) **2000g:03139**

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Celani, Sergio Arturo Distributive lattices with a negation operator. (English summary) **2000c:06026**
Coniglio, Marcelo E. (*with* Miraglia, Francisco) Equality in linear logic. **2000d:03159**
de Cooman, Gert Confidence relations and ordinal information. (English summary) **2000a:68141**
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Jun, Young Bae (*with* Xu, Yang) Quasi-uniformities on lattice implication algebras. (English summary)
— On LI-ideals and prime LI-ideals of lattice implication algebras. (English summary) **2000e:06008**
— (*with* Xu, Yang; Qin, Ke Yun; Liu, Jun) Fuzzy LI-ideals in lattice implication algebras. II. (English summary)
Kim, Kyung Ho *see* **Yon, Yong Ho, 2000f:03167**
Kondo, Michiro Decidability of DBL logic in the semantics of logic programming. (English summary) **2000m:68042**
Lindahl, Lars (*with* Odelstad, Jan) Intermediate concepts as couplings of conceptual structures. (English summary) **2000f:03053**
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Panti, Giovanni Prime ideals in free l-groups and free vector lattices. (English summary) **2000g:06004**
Pynko, Alexej P. Implicational classes of De Morgan lattices. (English summary) **2000m:06017**
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Takách, G. Notes on sublattice-lattices. (English summary) **2000a:06030**
— On the dependence of related structures of lattices. (English summary) **2000m:06009**
Turunen, Esko ★ Mathematics behind fuzzy logic. (English summary) **2000j:03046**
Van Alten, C. J. On the canonical lattice extension of a distributive nearlattice with a residuation operation. (English summary) **2000j:06005**
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Yon, Yong Ho (*with* Kim, Kyung Ho) On intuitionistic fuzzy filters and ideals of lattices. (English summary) **2000f:03167**

03G12 Quantum logic [see also 06C15, 81P10]

Chovanec, Ferdinand (*with* Kôpka, František) On a representation of finite Boolean D-posets. (English summary) **2000c:03048**
Kôpka, František *see* **Chovanec, Ferdinand, 2000c:03048**
de Lucia, Paolo (*with* Pták, Pavel) Quantum logics with classically determined states. **2000f:03191**
Mączyński, Maciej Boolean and orthomodular logics in mathematics and physics. (English summary) **2000a:03109**
Megill, Norman D. *see* **Pavičić, Mladen, 2000d:03167**
Pavičić, Mladen (*with* Megill, Norman D.) Binary orthologic with modus ponens is either orthomodular or distributive. (English summary) **2000d:03167**
Pták, Pavel *see* **de Lucia, Paolo, 2000f:03191**
Wilce, Alexander Perspectivity and congruence in partial abelian semigroups. (English summary) **2000b:03223**

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Cattaneo, Gianpiero (*with* Gudder, Stanley P.) Algebraic structures arising in axiomatic unsharp quantum physics. (English summary) **2000k:81023**
Chevalier, Georges Congruence relations in orthomodular lattices. (English summary) **2000i:06001**
Dalla Chiara, Maria Luisa (*with* Giuntini, Roberto) Łukasiewicz' theory of truth, from the quantum logical point of view. (*see* **2000k:03006**)
D'Hooghe, Bart (*with* Pykacz, Jarosław) Classical limit in fuzzy set models of spin-1/2 quantum logics. (English summary) **2000e:81015**
Dorninger, Dietmar (*with* Länger, Helmut; Mączyński, Maciej) On ring-like structures induced by Mackey's probability function. (English summary) **2000f:81013**
Dvurečenskij, Anatolij (*with* Graziano, Maria Gabriella) Commutative BCK-algebras and lattice ordered groups. (English summary) **2000b:06055**
Giuntini, Roberto *see* **Dalla Chiara, Maria Luisa, (2000k:03006)**
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Gudder, Stanley P. Morphisms, tensor products and σ-effect algebras. (English summary) **2000a:81011**
— Sharply dominating effect algebras. (English summary) **2000a:06040**
— *see also* **Cattaneo, Gianpiero, 2000k:81023**
Gunji, Yukio-Pegio (*with* Ito, Gen) Orthomodular lattice obtained from addressing a fixed point. (English summary) **2000g:37145**
Harding, John Axioms of an experimental system. (English summary) **2000d:81012**
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Länger, Helmut Greechie logics with simple state space structure. (English summary) **2000i:81010**
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Matveĭchuk, M. S. Gleason's theorem in W^*J-algebras in spaces with indefinite metric. (English summary) **2000h:81018**
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Navara, Mirko (*with* Pták, Pavel) Quantum logics with given centers and variable state spaces. (English summary) **2000h:81019**
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Pták, Pavel (*with* Weber, Hans[1]) Two remarks on the subspace poset of an inner product space. (English summary) **2000b:06027**
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Pykacz, Jarosław *see* **D'Hooghe, Bart, 2000e:81015**
Riečan, Beloslav On the conditional expectation of observables in MV algebras of fuzzy sets. (English summary) **2000a:81030**
— On the sum of observables in product MV algebras. (English summary)
Riečanová, Zdenka Strongly compactly atomistic orthomodular lattices and modular ortholattices. (English summary) **2000b:06028**
Román, Leopoldo (*with* Zuazua Vega, Rita E.) Quantum implication. (English summary) **2000d:81013**
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Svozil, Karl ★ Quantum logic. (English summary) **2000j:81024**
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03G15 Cylindric and polyadic algebras; relation algebras

Andréka, Hajnal (*with* Hodkinson, Ian; Németi, István) Finite algebras of relations are representable on finite sets. (English summary) **2000f:03192**
Bredikhin, D. A. On reducts of Tarski relation algebras. (Russian. Russian summary) **2000d:03168**
— On relation algebras with Diophantine operations. (Russian) **2000f:03193**
Desharnais, Jules Monomorphic characterization of n-ary direct products. **2000i:03091**
Feldman, Norman The cylindric algebras of three-valued logic. **2000d:03169**
Ferenczi, M. On diagonals in representable cylindric algebras. **2000f:03194**
Hirsch, Robin A finite relation algebra with undecidable network satisfaction problem. (English summary) **2000f:03195**
Hodkinson, Ian *see* **Andréka, Hajnal et al., 2000f:03192**
Hollenberg, Marco (*with* Visser, Albert) Dynamic negation, the one and only. (English summary) **2000d:03170**
Kahl, Wolfram Relational matching for graphical calculi of relations. (English summary) **2000h:03122**
Maddux, Roger D. Relation algebras of formulas. (English summary) **2000h:03123**
Marx, Maarten Relativized relation algebras. (English summary) **2000g:03140**
— Relation algebras can tile. (English summary) **2000k:03151**
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Pagliani, Piero Analysing choices and decisions through relation algebras. **2000j:03090**
de Rijke, Maarten A modal characterization of Peirce algebras. (English summary) **2000j:03091**
Sain, Ildikó (*with* Németi, István) Fork algebras in usual and in non-well-founded set theories (an overview). (English summary) **2000f:03196**
Venema, Yde Rectangular games. (English summary) **2000d:03171**
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Berghammer, Rudolf (*with* von Karger, Burghard; Wolf, Andreas) Relation-algebraic derivation of spanning tree algorithms. (English summary) (*see* **2000h:68021**)
Dawson, Jeremy E. (*with* Goré, Rajeev) A mechanised proof system for relation algebra using display logic. (English summary) (*see* **2000h:68019**)
Del Vigna, Claude Commands as binary relations. (English summary) **2000j:03048**
Givant, S. (*with* Venema, Yde) The preservation of Sahlqvist equations in completions of Boolean algebras with operators. (English summary) **2000e:06019**
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Hirsch, Robin Tractable approximations for temporal constraint handling. (English summary) **2000k:68147**
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de Kogel, Eric (*with* de Swart, Harrie) An exercise in relational algebra: reduction in programming languages. (English summary) **2000g:68018**
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Winter, Michael A relation algebraic approach to interaction categories. (English summary) **2000j:68118**
Wolf, Andreas *see* **Berghammer, Rudolf et al., (2000h:68021)**

03G20 Łukasiewicz and Post algebras [see also 06D25, 06D30]

Banković, Dragić On Postian equations. (English summary) (*see* **2000g:00059**)
Both, N. (*with* Purdea, I.) Many-valued extendings. **2000g:03141**
Cattaneo, Gianpiero (*with* Lombardo, Franco) Independent axiomatization of MV-algebras. (English summary) **2000b:03224**
Ceterchi, Rodica On algebras with implications, categorically equivalent to pseudo-MV algebras. (English summary) (*see* **2000g:00059**)
Chakraborty, Mihir K. (*with* Sen, Jayanta) MV-algebras embedded in a CL-algebra. (English summary) **2000b:03225**
Di Nola, Antonio (*with* Grigoliya, R. Sh.; Panti, Giovanni) Finitely generated free MV-algebras and their automorphism groups. (English summary) **2000a:03110**
Georgescu, Georges (*with* Leuştean, Ioana) Convergence in perfect MV-algebras. **2000c:03049**
Grigoliya, R. Sh. *see* **Di Nola, Antonio et al., 2000a:03110**
Iturrioz, Luisa Rough sets and three-valued structures. (English summary) **2000h:03124**
Leuştean, Ioana *see* **Georgescu, Georges, 2000c:03049**
Liu, Lian Zhen (*with* Wang, Guo Jun[1]) Fuzzy implication algebras and MV-algebras. (Chinese. English and Chinese summaries) **2000d:03172**
Lombardo, Franco *see* **Cattaneo, Gianpiero, 2000b:03224**
Panti, Giovanni *see* **Di Nola, Antonio et al., 2000a:03110**
Purdea, I. *see* **Both, N., 2000g:03141**
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Anshakov, O. M. J-logics and corresponding classes of algebras. (Russian. English summary) (*see* **2000h:03006**)
Belluce, Lawrence Peter (*with* Sessa, Salvatore) The stable topology for MV-algebras. (English summary) (*see* **2000g:00059**)
Celani, Sergio Arturo A note on homomorphisms of tetravalent modal algebras. (Spanish. English summary) **2000b:06034**
Cignoli, Roberto (*with* Mundici, Daniele) An elementary presentation of the equivalence between MV-algebras and l-groups with strong unit. (English summary) **2000a:06054**
— *see also* **Abad, Manuel et al., 2000b:06032**
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Di Nola, Antonio Categories and varieties of MV-algebras. (English summary) **2000k:06012**
— (*with* Lettieri, Ada) One chain generated varieties of MV-algebras. **2000m:06018**
Dvurečenskij, Anatolij On partial addition in pseudo MV-algebras. (English summary) (*see* **2000g:00059**)
Emoto, Masashi (*with* Mukaidono, Masao) Necessary and sufficient conditions for fuzzy truth values to form a de Morgan algebra. (English summary) **2000j:03043**
Gispert i Brasó, Joan (*with* Torrens Torrell, Antoni) Quasivarieties generated by simple MV-algebras. (English summary) **2000a:08028**
Iorgulescu, Afrodita Connections between MV_n algebras and n-valued Lukasiewicz-Moisil algebras. II. (English summary) **2000d:06015**
Kosovskiĭ, N. K. (*with* Tishkov, A. V.) Graded logical values for the representation of knowledge. (Russian. English and Russian summaries) **2000e:68166**
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Leuştean, Ioana Product MV-algebras and MV*-algebras. (English summary) (*see* **2000g:00059**)
Mal'tsev, I. A. (*with* Tugylbaeva, B. G.) Products of iterative algebras. (Russian. Russian summary) **2000d:08003**
Martínez, Néstor G. A reduced spectrum for MV-algebras. (English summary) **2000h:06013**
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Mundici, Daniele (*with* Panti, Giovanni) Twenty questions with many-valued answers. (English summary) **2000c:03019**
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Prata dos Santos, R. Involutive Stone algebras and regular α-De Morgan algebras. (English summary) **2000b:06039**
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Priestley, H. A. (*with* Prata dos Santos, R.) Varieties of distributive lattices with unary operations. II. (English summary) **2000c:06016**
Riečan, Beloslav On the probability theory on product MV algebras. (English summary) (*see* **2000g:00059**)
— On the product MV algebras. (English summary) **2000h:06014**
Safin, K. L. Simple iterative algebras. (Russian. Russian summary) **2000d:03048**
Serfati, Michel The lattice theory of r-ordered partitions. (English summary) **2000b:06033**
Sessa, Salvatore *see* **Belluce, Lawrence Peter, (2000g:00059)**
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Viglizzo, Ignacio Free monadic three-valued Łukasiewicz algebras. (English summary) **2000g:06008**

03G25 Other algebras related to logic [see also 03F45, 06D20, 06E25, 06F35]

Bartol, Wiktor (*with* Caicedo, Xavier; Rosselló-Llompart, Francesc) Syntactical content of finite approximations of partial algebras. (English summary) (*see* **2000j:68007**)
Caicedo, Xavier *see* **Bartol, Wiktor et al., (2000j:68007)**
Cheng, Guo Sheng *see* **Li, Ji Cheng**
Cignoli, Roberto (*with* Mundici, Daniele) An invitation to Chang's MV algebras. (English summary) **2000e:03176**
Dan, Christina $\mathscr{T}$-multipliers and the localization of Heyting algebras. (English summary) **2000e:03177**
Dimov, Georgi D. (*with* Vakarelov, Dimit$^{\text{#}}$r) On Scott consequence systems. (English summary) **2000b:03226**
Di Nola, Antonio (*with* Lettieri, Ada) Equational characterization of all varieties of MV-algebras. (English summary) **2000j:03092**
Font, Josep Maria On special implicative filters. (English summary) **2000b:03227**
Ishii, Tadao A note on varieties of PCI-algebras with EDPC. (English summary) **2000j:03093**
Jun, Young Bae (*with* Kim, Hee Sik) Fuzzy implicative algebras. (English summary) **2000d:03173**
— (*with* Xu, Yang; Qin, Ke Yun) Normal fuzzy LI-ideals of lattice implication algebras. (English summary) **2000h:03125**
— (*with* Xu, Yang; Qin, Ke Yun; Roh, Eun Hwan) Fuzzy topological lattice implication algebras. (English summary)
— (*with* Xu, Yang; Qin, Ke Yun; Roh, Eun Hwan) Intuitionistic fuzzy LI-ideals in lattice implication algebras. (English summary)
Jurečková, Mária The Jegorov theorem on MV algebras. (English summary) **2000h:03126**
Kim, Hee Sik *see* **Jun, Young Bae, 2000d:03173**
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Watanabe, Keiji *see* **Nakamura, Toru et al.**, (**2000g:81006**)

03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

Gencer, Çiğdem On nonstandard models of Presburger's arithmetic. (English and Turkish summaries) **2000e:03181**
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Johannsen, Jan A remark on independence results for sharply bounded arithmetic. (English summary) **2000b:03210**
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05–XX Combinatorics {For finite fields, see 11Txx.}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Gross, Jonathan L.) *see* **Handbook: Discrete and combinatorial mathematics, 2000g:05001**
(Grossman, Jerrold W.) *see* **Handbook: Discrete and combinatorial mathematics, 2000g:05001**
(Michaels, John G.) *see* **Handbook: Discrete and combinatorial mathematics, 2000g:05001**
(Pratt, Marge) *see* **Zaslavsky, Thomas, 2000m:05001a**
Read, Ronald C. (*with* Wilson, Robin J.) ★ An atlas of graphs. **2000a:05001**
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Balakrishnan, Rangaswami (*with* Ranganathan, Krishnachar) ★ A textbook of graph theory. (English summary) **2000j:05001**
Beth, Thomas (*with* Jungnickel, Dieter; Lenz, Hanfried) ★ Design theory. Vol. II. (English summary) **2000j:05002**
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Hilton, Peter (*with* Pedersen, Jean) Relating geometry and algebra in the Pascal triangle, hexagon, tetrahedron, and cuboctahedron. I. Binomial coefficients, extended binomial coefficients and preparation for further work. **2000d:05001**
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Jungnickel, Dieter ★ Graphs, networks and algorithms. **2000b:05003**
— *see also* **Beth, Thomas et al., 2000j:05002**
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McKee, Terry A. (*with* McMorris, Fred R.) ★ Topics in intersection graph theory. (English summary) **2000e:05001**
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Odyniec, Włodzimierz P. (*with* Szkudlarski, Damian) ★ Matematyka dyskretna. (Polish) [Discrete mathematics]
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Alon, Noga Randomness and pseudo-randomness in discrete mathematics. **2000a:05002**

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Rota, Gian-Carlo Combinatorics, representation theory and invariant theory: the story of a ménage à trois. **2000e:05170**

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Mahajan, Meena (*with* Subramanya, P. R.; Vinay, V.) A combinatorial algorithm for Pfaffians. (English summary) **2000i:05002**
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05–06 Proceedings, conferences, collections, etc.

(Balakrishnan, Rangaswami) *see* **Graph connections, 2000d:05002** *and* **Combinatorics and number theory, 2000e:05002**
(Bermond, J.-C.) *see* **Combinatorics and number theory, 2000e:05002**
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Birthday:
Sachs, Horst ★ Graph theory. **2000k:05003**
Boca Raton, FL ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05004**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05005**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05006**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05007**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05008**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05009**
Canterbury ★ Surveys in combinatorics, 1999. **2000g:05007**
Cochin ★ Graph connections. **2000d:05002**
Coding, cryptography and computer security ★ Coding, cryptography and computer security. **2000m:05003**
Colloquium:
Graph Theory ★ Graph theory. **2000k:05003**
Combinatorics and applications ★ Combinatorics and applications. **2000k:05001**
Combinatorics and number theory ★ Combinatorics and number theory. **2000e:05002**
Combinatorics and optimization ★ Combinatorics and optimization. **2000m:05004**
Conference:
Combinatorial ★ Proceedings of the Seventh Nordic Combinatorial Conference. **2000g:05006**
— ★ Surveys in combinatorics, 1999. **2000g:05007**
Combinatorics and Optimization ★ Combinatorics and optimization. **2000m:05004**
Combinatorics, Graph Theory, and Computing ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05004**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05005**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05006**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05007**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05008**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05009**
Discrete Mathematics and Number Theory ★ Combinatorics and number theory. **2000e:05002**
Formal Power Series and Algebraic Combinatorics ★ Formal power series and algebraic combinatorics. **2000h:05001**
Graph Connections ★ Graph connections. **2000d:05002**
Cycles and colourings '97 ★ Cycles and colourings '97. **2000g:05003**
Dagstuhl ★ Graph algorithms and applications. **2000i:05003**
Difference sets, sequences and their correlation properties ★ Difference sets, sequences and their correlation properties. **2000k:05002**
Dörnfeld ★ Graph theory. **2000k:05003**
Enschede ★ Proceedings of the 5th Twente Workshop on Graphs and Combinatorial Optimization. **2000k:05010**
Festschrift:
Hedetniemi, Stephen T. ★ Papers in honour of Stephen T. Hedetniemi.
Sachs, Horst ★ Graph theory. **2000k:05003**
Stanton, Ralph Gordon ★ Special issue in honor of Professor Ralph Stanton.
Formal power series and algebraic combinatorics ★ Formal power series and algebraic combinatorics. **2000h:05001**
Graph algorithms and applications ★ Graph algorithms and applications. **2000i:05003**
Graph colouring and applications ★ Graph colouring and applications. **2000g:05004**
Graph connections ★ Graph connections. **2000d:05002**
Graph theory ★ Graph theory. **2000k:05003**
Lethbridge, AB ★ Coding, cryptography and computer security. **2000m:05003**
Meeting:
Graph Theory ★ New York Graph Theory Day. 33. **2000b:05005**
— ★ New York Graph Theory Day. 36. **2000e:05004**
Messina ★ 5th Workshop on Combinatorics. **2000m:05005**
Minneapolis, MN ★ Formal power series and algebraic combinatorics. **2000h:05001**
Montréal, QC ★ Graph colouring and applications. **2000g:05004**
NATO Advanced Study Institute:
Difference Sets, Sequences and their Correlation Properties ★ Difference sets, sequences and their correlation properties. **2000k:05002**
New perspectives in algebraic combinatorics ★ New perspectives in algebraic combinatorics. **2000g:05005**
New York ★ New York Graph Theory Day. 35. **2000e:05003**
New York Graph Theory Day ★ New York Graph Theory Day. 33. **2000b:05005**
— ★ New York Graph Theory Day. 35. **2000e:05003**
— ★ New York Graph Theory Day. 36. **2000e:05004**
Okinawa ★ Combinatorics and optimization. **2000m:05004**
Papers in honour of Stephen T. Hedetniemi ★ Papers in honour of Stephen T. Hedetniemi.
Proceedings:
Combinatorial Conference ★ Proceedings of the Seventh Nordic Combinatorial Conference. **2000g:05006**
Conference on Combinatorics, Graph Theory, and Computing ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05004**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05005**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05006**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05007**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05008**
— ★ Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing. **2000k:05009**
Workshop on Graphs and Combinatorial Optimization ★ Proceedings of the 5th Twente Workshop on Graphs and Combinatorial Optimization. **2000k:05010**
Seminar:
Graph Algorithms and Applications ★ Graph algorithms and applications. **2000i:05003**
Special Issue:
Stanton, Ralph Gordon ★ Special issue in honor of Professor Ralph Stanton.
Treewidth ★ Treewidth.
Stará Lesná ★ Cycles and colourings '97. **2000g:05003**
Staten Island, NY ★ New York Graph Theory Day. 36. **2000e:05004**
Surveys in combinatorics ★ Surveys in combinatorics, 1999. **2000g:05007**
Symposium:
Algebraic Combinatorics ★ Daisūteki kumiawase ron. [Algebraic combinatorics] **2000m:05002**
Combinatorics and Applications ★ Combinatorics and applications. **2000k:05001**
Tianjin ★ Combinatorics and applications. **2000k:05001**
Tiruchirappalli ★ Combinatorics and number theory. **2000e:05002**
Treewidth ★ Treewidth.
Turku ★ Proceedings of the Seventh Nordic Combinatorial Conference. **2000g:05006**
Valhalla, NY ★ New York Graph Theory Day. 33. **2000b:05005**
Workshop:
Coding Theory, Cryptography and Computer Security ★ Coding, cryptography and computer security. **2000m:05003**
Combinatorics ★ 5th Workshop on Combinatorics. **2000m:05005**
Cycles and Colourings ★ Cycles and colourings '97. **2000g:05003**
Graph Colouring and Applications ★ Graph colouring and applications. **2000g:05004**
Graphs and Combinatorial Optimization ★ Proceedings of the 5th Twente Workshop on Graphs and Combinatorial Optimization. **2000k:05010**

Items with secondary classifications in 05–06

(Asano, Takao) *see* **Computing and combinatorics, 2000h:68012**
(Bálint, Vojtech) *see* **Proceedings: Conference on Mathematics, 2000j:00022**
(Barlotti, A.) *see* **Combinatorics, 2000g:00028**
(Bichara, Alessandro) *see* **Combinatorics, 2000g:00028**
(Bixby, Robert E.) *see* **Integer programming and combinatorial optimization, 2000g:90002**
(Boyd, E. Andrew) *see* **Integer programming and combinatorial optimization, 2000g:90002**
(Brandstädt, Andreas) *see* **Proceedings: Conference on Optimal Discrete Structures and Algorithms, 2000c:00037**
(Buckley, Fred) *see* **Centrality concepts in network location, 2000h:90004**
(Burkard, Rainer E.) *see* **Integer programming and combinatorial optimization, 2000c:90007**
(Calude, Cristian S.) *see* **Combinatorics, computation & logic '99, 2000f:68001**
(Ceccherini, P. V.) *see* **Combinatorics, 2000g:00028**
(Chayes, Jennifer Tour) *see* **Statistical physics methods in discrete probability, combinatorics, and theoretical computer science, 2000e:00028**
(Cornuéjols, Gérard) *see* **Integer programming and combinatorial optimization, 2000c:90007**
(Dinneen, Michael J.) *see* **Combinatorics, computation & logic '99, 2000f:68001**
(Ehrig, Hartmut) *see* **Categorical approaches to computing by graph transformation, 2000k:68006**
(Engel, Konrad) *see* **Proceedings: Conference on Optimal Discrete Structures and Algorithms, 2000c:00037**
(Eugine, F.) *see* **Combinatorics, 2000g:00028**
(Faina, Giorgio) *see* **Combinatorics, 2000g:00028**
(Graham, Ronald L.) *see* **Contemporary trends in discrete mathematics, 2000d:00009**
(Gronau, Hans-Dietrich) *see* **Proceedings: Conference on Optimal Discrete Structures and Algorithms, 2000c:00037**
(Gupta, Sudhir) *see* **J. N. Srivastava: felicitation volume**
(Haynes, Teresa W.) *see* **Domination in graphs, 2000j:05091**
(Hedetniemi, Stephen T.) *see* **Domination in graphs, 2000j:05091**
(Hromkovič, Juraj) *see* **Graph-theoretic concepts in computer science, 2000h:68017**
(Imai, Hiroshi) *see* **Computing and combinatorics, 2000h:68012**
(Jolion, Jean-Michel) *see* **Graph based representations in pattern recognition, 2000e:68006**
(Kratochvíl, Jan) *see* **Contemporary trends in discrete mathematics, 2000d:00009**
(Kropatsch, Walter G.) *see* **Graph based representations in pattern recognition, 2000e:68006**

(Labahn, Roger) *see* **Proceedings: Conference on Optimal Discrete Structures and Algorithms, 2000c:00037**
(Lee, Der Tsai) *see* **Computing and combinatorics, 2000h:68012**
(Lonc, Zbigniew) *see* **Selected topics in discrete mathematics, 2000m:00039**
(Mukerjee, Rahul) *see* **J. N. Srivastava: felicitation volume**
(Nakano, Shin-ichi) *see* **Computing and combinatorics, 2000h:68012**
(Nešetřil, Jaroslav) *see* **Contemporary trends in discrete mathematics, 2000d:00009**
(Randall, Dana J.) *see* **Statistical physics methods in discrete probability, combinatorics, and theoretical computer science, 2000e:00028**
(Rao, Calyampudi Radhakrishna) *see* **J. N. Srivastava: felicitation volume**
(Ríos-Mercado, Roger Z.) *see* **Integer programming and combinatorial optimization, 2000g:90002**
(Roberts, Fred S.) *see* **Contemporary trends in discrete mathematics, 2000d:00009**
(Schneider, Hans-Jürgen[1]) *see* **Categorical approaches to computing by graph transformation, 2000k:68006**
(Shum, Kar Ping) *see* **Algebras and combinatorics, 2000j:00015**
(Slater, Peter J.) *see* **Domination in graphs, 2000j:05091**
(Srivastava, Jagdish N.) *see* **J. N. Srivastava: felicitation volume**
(Sýkora, Ondrej) *see* **Graph-theoretic concepts in computer science, 2000h:68017**
(Taft, Earl J.) *see* **Algebras and combinatorics, 2000j:00015**
(Tokuyama, Takeshi) *see* **Computing and combinatorics, 2000h:68012**
(Wan, Zhe-Xian) *see* **Algebras and combinatorics, 2000j:00015**
(Woeginger, Gerhard J.) *see* **Integer programming and combinatorial optimization, 2000c:90007**

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Algebraic combinatorics ★ Daīsūteki kumiawaseron. [Algebraic combinatorics] **2000a:00013**
Algebras and combinatorics ★ Algebras and combinatorics. **2000j:00015**
Algorithm engineering as a new paradigm ★ Atarashii paradaimu toshite no arugorizumu kōgaku. [Algorithm engineering as a new paradigm] **2000m:68003**
Assisi ★ Combinatorics. **2000g:00028**
Baltimore, MD ★ Proceedings of the Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2000j:68006**
Birthday:
  Srivastava, Jagdish Narain ★ J. N. Srivastava: felicitation volume.
Categorical approaches to computing by graph transformation ★ Categorical approaches to computing by graph transformation. **2000k:68006**
Centrality concepts in network location ★ Centrality concepts in network location. **2000h:90004**
Combinatorics ★ Combinatorics. **2000g:00028**
Combinatorics, computation & logic '99 ★ Combinatorics, computation & logic '99. **2000f:68001**
Computing and combinatorics ★ Computing and combinatorics. **2000h:68012**
Conference:
  Combinatorics 96 ★ Combinatorics. **2000g:00028**
  Computing and Combinatorics ★ Computing and combinatorics. **2000h:68012**
  Discrete Mathematics and Theoretical Computer Science ★ Combinatorics, computation & logic '99. **2000f:68001**
  Geometry, Combinatorial Designs and Related Structures ★ Second Pythagorean Conference. **2000m:51002**
  Integer Programming and Combinatorial Optimization ★ Integer programming and combinatorial optimization. **2000g:90002**
  — ★ Integer programming and combinatorial optimization. **2000c:90007**
  Mathematics ★ International Scientific Conference on Mathematics. Proceedings. **2000j:00022**
  Optimal Discrete Structures and Algorithms ★ Proceedings of the Conference on Optimal Discrete Structures and Algorithms—ODSA '97. **2000c:00037**
  The Future of Discrete Mathematics ★ Contemporary trends in discrete mathematics. **2000d:00009**
Congress:
  Algebras and Combinatorics ★ Algebras and combinatorics. **2000j:00015**
Contemporary trends in discrete mathematics ★ Contemporary trends in discrete mathematics. **2000d:00009**
Domination in graphs ★ Domination in graphs. **2000j:05091**
Festschrift:
  Srivastava, Jagdish Narain ★ J. N. Srivastava: felicitation volume.
Graph based representations in pattern recognition ★ Graph based representations in pattern recognition. **2000e:68006**
Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. **2000h:68017**
Graz ★ Integer programming and combinatorial optimization. **2000c:90007**
Hong Kong ★ Algebras and combinatorics. **2000j:00015**
Houston, TX ★ Integer programming and combinatorial optimization. **2000g:90002**
Integer programming and combinatorial optimization ★ Integer programming and combinatorial optimization. **2000g:90002**
— ★ Integer programming and combinatorial optimization. **2000c:90007**
J. N. Srivastava: felicitation volume ★ J. N. Srivastava: felicitation volume.
Lecture Notes in Computer Science ★ Integer programming and combinatorial optimization. **2000g:90002**
— ★ Graph-theoretic concepts in computer science. **2000h:68017**
— ★ Integer programming and combinatorial optimization. **2000c:90007**
— ★ Computing and combinatorics. **2000h:68012**
Lyon ★ Graph based representations in pattern recognition. **2000e:68006**
Meeting:
  Random Graphs and Combinatorial Structures ★ Random graphs and combinatorial structures.
Oberwolfach ★ Random graphs and combinatorial structures.
Princeton, NJ ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**
Proceedings:
  Conference on Mathematics ★ International Scientific Conference on Mathematics. Proceedings. **2000j:00022**
  Conference on Optimal Discrete Structures and Algorithms ★ Proceedings of the Conference on Optimal Discrete Structures and Algorithms—ODSA '97. **2000c:00037**
  Symposium on Discrete Algorithms ★ Proceedings of the Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2000j:68006**
  — ★ Proceedings of the Eleventh Annual ACM-SIAM Symposium on Discrete Algorithms. **2000m:68010**
  Workshop on Topological Graph Theory ★ Proceedings of the 10th Workshop on Topological Graph Theory. **2000h:00011**
Pythagoreion ★ Second Pythagorean Conference. **2000m:51002**
Random graphs and combinatorial structures ★ Random graphs and combinatorial structures.
Rostock ★ Proceedings of the Conference on Optimal Discrete Structures and Algorithms—ODSA '97. **2000c:00037**
San Francisco, CA ★ Proceedings of the Eleventh Annual ACM-SIAM Symposium on Discrete Algorithms. **2000m:68010**
Selected topics in discrete mathematics ★ Selected topics in discrete mathematics. **2000m:00039**
Smolenice Castle ★ Graph-theoretic concepts in computer science. **2000h:68017**
Special Issue:
  Categorical approaches to computing by graph transformation ★ Categorical approaches to computing by graph transformation. **2000k:68006**
  Centrality concepts in network location ★ Centrality concepts in network location. **2000h:90004**
Special Year:
  Discrete Probability ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**
Statistical physics methods in discrete probability, combinatorics, and theoretical computer science ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**
Štiřín Castle ★ Contemporary trends in discrete mathematics. **2000d:00009**
Symposium:
  Algebraic Combinatorics ★ Daīsūteki kumiawaseron. [Algebraic combinatorics] **2000a:00013**
  Algorithm Engineering as a New Paradigm ★ Atarashii paradaimu toshite no arugorizumu kōgaku. [Algorithm engineering as a new paradigm] **2000m:68003**
  Computing: the Australasian Theory ★ Combinatorics, computation & logic '99. **2000f:68001**
  Discrete Algorithms ★ Proceedings of the Tenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2000j:68006**
  — ★ Proceedings of the Eleventh Annual ACM-SIAM Symposium on Discrete Algorithms. **2000m:68010**
Tokyo ★ Computing and combinatorics. **2000h:68012**
Warsaw ★ Selected topics in discrete mathematics. **2000m:00039**
Workshop:
  Geometry, Combinatorial Designs and Related Structures ★ Second Pythagorean Conference. **2000m:51002**
  Graph Based Representation ★ Graph based representations in pattern recognition. **2000e:68006**
  Graph-Theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **2000h:68017**
  Statistical Physics Methods in Discrete Probability, Combinatorics, and Theoretical Computer Science ★ Statistical physics methods in discrete probability, combinatorics, and theoretical computer science. **2000e:00028**
  Topological Graph Theory ★ Proceedings of the 10th Workshop on Topological Graph Theory. **2000h:00011**
Yokohama ★ Proceedings of the 10th Workshop on Topological Graph Theory. **2000h:00011**
Žilina ★ International Scientific Conference on Mathematics. Proceedings. **2000j:00022**

05Axx Enumerative combinatorics

Alon, Noga Combinatorial Nullstellensatz. (English summary) **2000b:05001**
Erdős, Paul[1] A selection of problems and results in combinatorics. (English summary) **2000b:05002**

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Aigner, Martin (*with* Ziegler, Günter M.) ★ Proofs from The Book. (English summary) **2000k:00001**
Gasarch, William I. A survey of recursive combinatorics. **2000f:03127**
(Hofmann, Karl H.) *see* **Aigner, Martin, 2000k:00001**
Ziegler, Günter M. *see* **Aigner, Martin, 2000k:00001**

Items with secondary classifications in 05Axx

Prodinger, Helmut (*with* Szpankowski, Wojciech) Philippe Flajolet's research in analysis of algorithms and combinatorics. (English summary) **2000g:05002**
Szpankowski, Wojciech *see* **Prodinger, Helmut, 2000g:05002**

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Arratia, Richard On the Stanley-Wilf conjecture for the number of permutations avoiding a given pattern. (English summary) **2000e:05005**
Atkinson, Michael D. Generalized stack permutations. (English summary) **2000a:05003**
— (*with* Beals, Robert) Permuting mechanisms and closed classes of permutations. (English summary) **2000g:05008**
— *see also* **Strehl, Volker, 2000g:05010**

Baik, Jinho (*with* Deift, P. A.; Johansson, Kurt) On the distribution of the length of the longest increasing subsequence of random permutations. **2000e:05006**
Beals, Robert *see* **Atkinson, Michael D., 2000g:05008**
Bencze, Mihály (*with* Popovici, Florin) Permutations.
Benjamin, Arthur T. (*with* Fluet, Matthew T.) What's best?
(Bhat, Girish S.) *see* **Kedlaya, Kiran, 2000g:05009**
Bóna, Miklós *see* **Spielman, Daniel A., 2000k:05014**
Byl, John On resolving the Littlewood-Ross paradox. (English summary)
Chow, Timothy Y. (*with* West, Julian) Forbidden subsequences and Chebyshev polynomials. (English summary) **2000c:05001**
Deift, P. A. *see* **Baik, Jinho et al., 2000e:05006**
Fluet, Matthew T. *see* **Benjamin, Arthur T.**
Gardner, Martin Modeling mathematics with playing cards.
Helm, Martin On the Beck-Fiala theorem. (English summary) **2000h:05002**
Iwama, Kazuo (*with* Manlove, David F.; Miyazaki, Shuichi; Morita, Yasufumi) Stable marriage with incomplete lists and ties. (English summary) **2000j:05004**
Johansson, Kurt *see* **Baik, Jinho et al., 2000e:05006**
Kedlaya, Kiran Comments on: "Balanced Gray codes" [Electron. J. Combin. **3** (1996), no. 1, Research Paper 25, approx. 11 pp. (electronic); MR 97k:05004] by G. S. Bhat and C. D. Savage. **2000g:05009**
Keller, Timothy P. Finite cycles of certain periodically linear permutations.
Kimberling, Clark (*with* Shultz, Harris S.) Card sorting by dispersions and fractal sequences. **2000m:05006**
Klazar, Martin Counting pattern-free set partitions. I. A generalization of Stirling numbers of the second kind. (English summary) **2000m:05007**
Korsh, James F. (*with* LaFollette, Paul) Multiset permutations and loopless generation of ordered trees with specified degree sequence. (English summary) **2000k:05011**
Kujansuu, Eija (*with* Lindberg, Tuukka; Mäkinen, Erkki) The stable roommates problem and chess tournament pairings. (English and Spanish summaries) **2000h:05003**
Kurchenko, A. A. On finite sets. (Ukrainian) **2000h:05004**
LaFollette, Paul *see* **Korsh, James F., 2000k:05011**
Le, Dung^2 (*with* Macula, Anthony J., Jr.) On the probability that subset sequences are minimal. (English summary) **2000d:05003**
Leep, David B. (*with* Myerson, Gerry) Marriage, magic, and solitaire. **2000d:05004**
Lindberg, Tuukka *see* **Kujansuu, Eija et al., 2000h:05003**
Linusson, Svante The number of M-sequences and f-vectors. (English summary) **2000k:05012**
Macula, Anthony J., Jr. *see* **Le, Dung^2, 2000d:05003**
Mäkinen, Erkki *see* **Kujansuu, Eija et al., 2000h:05003**
Manlove, David F. *see* **Iwama, Kazuo et al., 2000j:05004**
Mikawa, Kenji (*with* Semba, Ichiro) Generation of k-permutations in $O(1)$ time per permutation by reversing sublists. (English summary) (*see* **2000k:68012**)
Miyazaki, Shuichi *see* **Iwama, Kazuo et al., 2000j:05004**
Morita, Yasufumi *see* **Iwama, Kazuo et al., 2000j:05004**
Myerson, Gerry *see* **Leep, David B., 2000d:05004**
Pak, Igor When and how n choose k. (English summary) **2000a:05004**
Popovici, Florin *see* **Bencze, Mihály**
Robertson, Aaron Permutations containing and avoiding 123 and 132 patterns. (English summary) **2000b:05006**
(Savage, Carla D.) *see* **Kedlaya, Kiran, 2000g:05009**
Semba, Ichiro *see* **Mikawa, Kenji, (2000k:68012)**
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Simion, Rodica E. Combinatorial statistics on type-B analogues of noncrossing partitions and restricted permutations. (English summary) **2000k:05013**
Spielman, Daniel A. (*with* Bóna, Miklós) An infinite antichain of permutations. (English summary) **2000k:05014**
Strehl, Volker Comment on: "Permutations which are the union of an increasing and a decreasing subsequence" [Electron. J. Combin. **5** (1998), no. 1, Research Paper 6, 13 pp. (electronic); MR 98k:05001] by M. D. Atkinson. **2000g:05010**
Takács, Lajos On cyclic permutations. (English summary)
Trub, I. I. A recurrent algorithm for solving a combinatorial problem on arrangements with restrictions. (Russian. Russian summary) **2000h:05005**
Uno, Takeaki (*with* Yagiura, M.) Fast algorithms to enumerate all common intervals of two permutations. (English summary) **2000h:05006**
Weems, B. P. Bistable versions of the marriages and roommates problems. (English summary) **2000k:05015**
West, Julian *see* **Chow, Timothy Y., 2000c:05001**
Wirsching, Günther Balls in constrained urns and Cantor-like sets. (English summary) **2000b:05007**
Yagiura, M. *see* **Uno, Takeaki, 2000h:05006**

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Broder, Andrei Z. (*with* Feige, Uriel) Min-wise versus linear independence (extended abstract). (English summary) (*see* **2000m:68010**)
Caspard, Nathalie A characterization for all interval doubling schemes of the lattice of permutations. (English summary) **2000d:06007**
Cheplyukova, I. A. *see* **Pavlov, Yu. L., 2000h:60010**
Dasgupta, Samit On the size of minimum super Arrovian domains. (English summary) **2000g:91015**
Ehrenborg, Richard (*with* Readdy, Margaret) Coproducts and the cd-index. (English summary) **2000b:52009**
— On apolarity and generic canonical forms. (English summary) **2000a:15050**
Feige, Uriel *see* **Broder, Andrei Z., (2000m:68010)**
Hannenhalli, Sridhar (*with* Pevzner, Pavel A.) Transforming cabbage into turnip: polynomial algorithm for sorting signed permutations by reversals. (English summary) **2000j:92013**
Iguchi, Kazumoto Exactly solvable model of protein folding: Rubik's magic snake model. (English summary) **2000g:92009**
Ivanov, V. N. (*with* Kerov, S. V.) The algebra of conjugacy classes in symmetric groups, and partial permutations. (Russian. English and Russian summaries) **2000g:20010**
Kannan, V. Some selection theorems. **2000e:00001**
Kerov, S. V. *see* **Ivanov, V. N., 2000g:20010**
Kezlan, Thomas P. (*with* Rhee, Noah H.) A characterization of the centralizer of a permutation. (English summary)
Liu, Guang Qian *see* **Lu, Qing Lin**
Lu, Qing Lin (*with* Liu, Guang Qian) A class of permutation-counting problems. (Chinese. English and Chinese summaries)
Moura, Lucia Maximal s-wise t-intersecting families of sets: kernels, generating sets, and enumeration. (English summary) **2000d:05121**
Pavlov, Yu. L. (*with* Cheplyukova, I. A.) Limit distributions of the number of vertices in strata of a simply generated forest. (Russian. Russian summary) **2000h:60010**
Pevzner, Pavel A. *see* **Hannenhalli, Sridhar, 2000j:92013**
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05A16 Asymptotic enumeration

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05A17 Partitions of integers [see also 11P81, 11P82, 11P83]

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05A18 Partitions of sets

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05A19 Combinatorial identities

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05B15 Orthogonal arrays, Latin squares, Room squares

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05B40 Packing and covering [see also 11H31, 52C15, 52C17]

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05C60 Isomorphism problems (reconstruction conjecture, etc.)

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05C62 Graph representations (geometric and intersection representations, etc.)

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05C78 Graph labelling (graceful graphs, bandwidth, etc.)

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Guizzi, Valentina (*with* Papi, Paolo) A combinatorial approach to the fusion process for the symmetric group. (English summary) **2000g:05149**
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Kung, Joseph P. S. Pfaffian structures and critical problems in finite symplectic spaces. (English summary) **2000e:05039**
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Kerber, Adalbert (*with* Laue, Reinhard) Group actions, double cosets, and homomorphisms: unifying concepts for the constructive theory of discrete structures. (English summary) **2000a:05221**
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05E25 Group actions on posets and homology groups of posets [see also 06A11]

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Björner, Anders (*with* Welker, Volkmar) Complexes of directed graphs. (English summary) **2000h:05234**
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Friedman, Joel (*with* Hanlon, Phil) On the Betti numbers of chessboard complexes. (English summary) **2000c:05155**
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Hersh, Patricia Deformation of chains via a local symmetric group action. (English summary) **2000e:05167**
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Proctor, Robert A. Dynkin diagram classification of λ-minuscule Bruhat lattices and of d-complete posets. (English summary) **2000b:06008**
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— Whitney homology of semipure shellable posets. (English summary) **2000e:06004**

05E30 Association schemes, strongly regular graphs

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— (*with* Nomura, Kazumasa) Some formulas for spin models on distance-regular graphs. (English summary) **2000g:05151**
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Tomiyama, Masato Weakly Q-polynomial distance-regular graphs. **2000h:05242**
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05E35 Orthogonal polynomials [see also 33C45, 33C50, 33D45]

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Mimachi, Katsuhisa A new derivation of the inner product formula for the Macdonald symmetric polynomials. (English summary) **2000c:33022**
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05E99 None of the above, but in this section

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06–XX Order, lattices, ordered algebraic structures [see also 18B35]

06–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 06–00

(Gross, Jonathan L.) *see* **Handbook: Discrete and combinatorial mathematics, 2000g:05001**
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(Michaels, John G.) *see* **Handbook: Discrete and combinatorial mathematics, 2000g:05001**
(Rosen, Kenneth H.) *see* **Handbook: Discrete and combinatorial mathematics, 2000g:05001**
(Shier, Douglas R.) *see* **Handbook: Discrete and combinatorial mathematics, 2000g:05001**

Items listed otherwise than by author

Handbook:
Discrete and combinatorial mathematics ★ Handbook of discrete and combinatorial mathematics. **2000g:05001**

06–01 Instructional exposition (textbooks, tutorial papers, etc.)

Kim, Hee Sik *see* **Neggers, J., 2000c:06001**
Neggers, J. (*with* Kim, Hee Sik) ★ Basic posets. **2000c:06001**

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(Ganter, Bernhard) *see* **Grätzer, George, 2000b:06001**
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(Greferath, Marcus) *see* **Grätzer, George, 2000b:06001**
(Jipsen, Peter) *see* **Grätzer, George, 2000b:06001**
(Priestley, H. A.) *see* **Grätzer, George, 2000b:06001**
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(Wehrung, Friedrich) *see* **Grätzer, George, 2000b:06001**
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06–04 Explicit machine computation and programs (not the theory of computation or programming)

Ježek, Jaroslav (*with* Slavík, Václav) Random posets, lattices, and lattices terms. (English summary)
Slavík, Václav *see* **Ježek, Jaroslav**

06Axx Ordered sets

06A05 Total order

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06A07 Combinatorics of partially ordered sets

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06C05 Modular lattices, Desarguesian lattices

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06Fxx Ordered structures

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06F35 BCK-algebras, BCI-algebras [see also 03G25]

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08A40 Operations, polynomials, primal algebras

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08A45 Equational compactness

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08A50 Word problems [see also 03D40, 06B25, 20F10, 68R15]

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08A60 Unary algebras

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08A62 Finitary algebras

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08A65 Infinitary algebras

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08A72 Fuzzy algebraic structures

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08Bxx Varieties [see also 03C05]

08B05 Equational logic, Mal′cev (Mal′tsev) conditions

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Bunder, Martin W. (*with* Johnson, David Lawrence; Kim, Ann Chi) On the variety of algebras $\mathscr{V}(m,n)$. (English summary) **2000e:08009**
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Vovsi, Samuel M. Disjunctive identities of finite groups and identities of regular representations. (English summary) **2000f:20020**
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08B10 Congruence modularity, congruence distributivity

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Filipoiu, A. (*with* Georgescu, Georges) Maximal arithmetical algebras. (English summary) **2000d:08005**
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08B15 Lattices of varieties

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List of Paul Erdős's publications in number theory List of Paul Erdős's publications in number theory. **2000a:01031b**

11–06 Proceedings, conferences, collections, etc.

(Bambah, R. P.) *see* **Number theory, 2000m:11004**
(Buhler, J. P.) *see* **Algorithmic number theory, 2000g:11002**
Coates, John (*with* Greenberg, Ralph; Ribet, Kenneth A.; Rubin, Karl) ★ Arithmetic theory of elliptic curves. **2000m:11002**
(Deshouillers, Jean-Marc) *see* **Structure theory of set addition, 2000b:11005**
(Doran, Robert S.) *see* **Automorphic forms, automorphic representations, and arithmetic, 2000c:11002** *and* **2000c:11003**
(Dou, Ze-Li) *see* **Automorphic forms, automorphic representations, and arithmetic, 2000c:11002** *and* **2000c:11003**
(Dumir, V. C.) *see* **Number theory, 2000m:11004**
(Fried, Michael D.) *see* **Applications of curves over finite fields, 2000j:11004**
(Gilbert, George T.) *see* **Automorphic forms, automorphic representations, and arithmetic, 2000c:11002** *and* **2000c:11003**
Greenberg, Ralph *see* **Coates, John et al., 2000m:11002**
(Győry, Kálmán) *see* **Number theory in progress, 2000b:11004;2000c:11004** *and* **Number theory and its applications, 2000j:11005**
(Hans-Gill, R. J.) *see* **Number theory, 2000m:11004**
(Howard, Fredric T.) *see* **Applications of Fibonacci numbers, 2000j:11003**
(Hsia, John S.) *see* **Integral quadratic forms and lattices, 2000g:11004**
(Iwaniec, Henryk) *see* **Number theory in progress, 2000b:11004** *and* **2000c:11004**
(Kanemitsu, Shigeru) *see* **Number theory and its applications, 2000j:11005**
(Kim, Myung-Hwan[1]) *see* **Integral quadratic forms and lattices, 2000g:11004**
(Kitaoka, Yoshiyuki) *see* **Integral quadratic forms and lattices, 2000g:11004**
(Kramer, David) *see* **Kvant selecta: algebra and analysis, 2000m:11003**
(Landreau, Bernard) *see* **Structure theory of set addition, 2000b:11005**
(Motohashi, Yōichi) *see* **Analytic number theory, 2000a:11004**
(Reznikov, Alexander G.) *see* **Regulators in analysis, geometry and number theory, 2000g:11005**
Ribet, Kenneth A. *see* **Coates, John et al., 2000m:11002**
Rubin, Karl *see* **Coates, John et al., 2000m:11002**
(Schappacher, Norbert) *see* **Regulators in analysis, geometry and number theory, 2000g:11005**
(Schinzel, Andrzej) *see* **Number theory in progress, 2000b:11004** *and* **2000c:11004**
(Scholl, A. J.) *see* **Galois representations in arithmetic algebraic geometry, 2000a:11005**
(Schulze-Pillot, Rainer) *see* **Integral quadratic forms and lattices, 2000g:11004**
(Tabachnikov, Sergei) *see* **Kvant selecta: algebra and analysis, 2000m:11003**
(Taylor, Richard L.) *see* **Galois representations in arithmetic algebraic geometry, 2000a:11005**
(Urbanowicz, Jerzy) *see* **Number theory in progress, 2000b:11004** *and* **2000c:11004**
(Viola, Carlo) *see* **Coates, John et al., 2000m:11002**
(Yudin, A. A.) *see* **Structure theory of set addition, 2000b:11005**

Items listed otherwise than by author

Algebraic number theory ★ Algebraic number theory. **2000b:11003**
Algebraic number theory and related topics ★ Algebraic number theory and related topics. (Japanese) **2000k:11003**
Algorithmic number theory ★ Algorithmic number theory. **2000g:11002**
Analytic number theory ★ Analytic number theory. **2000a:11004**
Analytic number theory and its interactions with other parts of number theory ★ Analytic number theory and its interactions with other parts of number theory. (Japanese) **2000j:11002**
Applications of curves over finite fields ★ Applications of curves over finite fields. **2000j:11004**
Applications of Fibonacci numbers ★ Applications of Fibonacci numbers. Vol. 8. **2000j:11003**
Arithmetic theory of elliptic curves *see* **Coates, John et al., 2000m:11002**
Automorphic forms and *L*-functions ★ Hokei keishiki to kansū no kenkyū. (Japanese) [Automorphic forms and *L*-functions] **2000k:11004**
Automorphic forms, automorphic representations, and arithmetic ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11002**
— ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11003**
Birthday:
Schinzel, Andrzej ★ Number theory in progress. Vol. 1. **2000b:11004**
— ★ Number theory in progress. Vol. 2. **2000c:11004**
Cetraro *see* **Coates, John et al., 2000m:11002**
Colloquium:
Transcendental Number Theory ★ Colloque Franco-Japonais: Théorie des Nombres Transcendants. [Franco-Japanese Colloquium: Transcendental Number Theory] **2000f:11003**
Conference:
Algebraic Number Theory ★ Algebraic number theory. **2000b:11003**
Analytic Number Theory ★ Analytic number theory. **2000a:11004**
Applications of Curves over Finite Fields ★ Applications of curves over finite fields. **2000j:11004**
Arithmetic ★ Les XXèmes Journées Arithmétiques. [The XX Conference on Arithmetic] **2000g:11003**
Fibonacci Numbers and Their Applications ★ Applications of Fibonacci numbers. Vol. 8. **2000j:11003**
Integral Quadratic Forms and Lattices ★ Integral quadratic forms and lattices. (English summary) **2000g:11004**
Mathematics—Euler Products and Eisenstein Series ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11002**
— ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11003**
Number Theory ★ Number theory in progress. Vol. 1. **2000b:11004**
— ★ Number theory in progress. Vol. 2. **2000c:11004**
Number Theory and its Applications ★ Number theory and its applications. **2000j:11005**
Contemporary Mathematics ★ Integral quadratic forms and lattices. (English summary) **2000g:11004**
— ★ Applications of curves over finite fields. **2000j:11004**
Durham ★ Galois representations in arithmetic algebraic geometry. **2000a:11005**
Festschrift:
Schinzel, Andrzej ★ Number theory in progress. Vol. 1. **2000b:11004**
— ★ Number theory in progress. Vol. 2. **2000c:11004**
Fort Worth, TX ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11002**
— ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11003**
Galois representations in arithmetic algebraic geometry ★ Galois representations in arithmetic algebraic geometry. **2000a:11005**
Hapcheon ★ Algebraic number theory. **2000b:11003**
Integral quadratic forms and lattices ★ Integral quadratic forms and lattices. (English summary) **2000g:11004**
Kvant selecta: algebra and analysis ★ Kvant selecta: algebra and analysis. I. **2000m:11003**
Kyoto ★ Analytic number theory. **2000a:11004**
— ★ Number theory and its applications. **2000j:11005**
Lecture Notes in Computer Science ★ Algorithmic number theory. **2000g:11002**
Lecture Notes in Mathematics *see* **Coates, John et al., 2000m:11002**
Limoges ★ Les XXèmes Journées Arithmétiques. [The XX Conference on Arithmetic] **2000g:11003**
Number theory ★ Théorie des nombres. Années 1996/97–1997/98. (French) [Number theory. 1996/97–1997/98] **2000h:11002**
— ★ Number theory. **2000m:11004**
Number theory and its applications ★ Sūron to sono ōyō. [Number theory and its applications] **2000e:11002**
— ★ Number theory and its applications. **2000j:11005**
Number theory in progress ★ Number theory in progress. Vol. 1. **2000b:11004**
— ★ Number theory in progress. Vol. 2. **2000c:11004**
Portland, OR ★ Algorithmic number theory. **2000g:11002**
Proceedings of Symposia in Pure Mathematics ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11002**
— ★ Automorphic forms, automorphic representations, and arithmetic. **2000c:11003**
Progress in Mathematics ★ Regulators in analysis, geometry and number theory. **2000g:11005**
Regulators in analysis, geometry and number theory ★ Regulators in analysis, geometry and number theory. **2000g:11005**
Rochester, NY ★ Applications of Fibonacci numbers. Vol. 8. **2000j:11003**
Saga ★ Algebraic number theory. **2000b:11003**
Seattle, WA ★ Applications of curves over finite fields. **2000j:11004**
Seoul ★ Integral quadratic forms and lattices. (English summary) **2000g:11004**
Session:
Arithmetic Theory of Elliptic Curves *see* **Coates, John et al., 2000m:11002**
Structure theory of set addition ★ Structure theory of set addition. **2000b:11005**
Symposium:
Algebraic Number Theory and Related Topics ★ Algebraic number theory and related topics. (Japanese) **2000k:11003**
Algorithmic Number Theory ★ Algorithmic number theory. **2000g:11002**
Analytic Number Theory and Its Interactions with Other Parts of Number Theory ★ Analytic number theory and its interactions with other parts of number theory. (Japanese) **2000j:11002**
Automorphic Forms and *L*-Functions ★ Hokei keishiki to kansū no kenkyū. (Japanese) [Automorphic forms and *L*-functions] **2000k:11004**

Symposium: (*cont'd.*)
Galois Representations in Arithmetic Algebraic Geometry ★ Galois representations in arithmetic algebraic geometry. **2000a:11005**
Mathematics, Analytic Number Theory ★ Analytic number theory. **2000a:11004**
Number Theory and its Applications ★ Sūron to sono ōyō. [Number theory and its applications] **2000e:11002**
Théorie des nombres ★ Théorie des nombres. Années 1996/97–1997/98. (French) [Number theory. 1996/97–1997/98] **2000h:11002**
Tokyo ★ Colloque Franco-Japonais: Théorie des Nombres Transcendants. [Franco-Japanese Colloquium: Transcendental Number Theory] **2000f:11003**
Zakopane-Kościelisko ★ Number theory in progress. Vol. 1. **2000b:11004**
— ★ Number theory in progress. Vol. 2. **2000c:11004**

Items with secondary classifications in 11–06

(Bergum, G. E.) *see* **Applications of Fibonacci numbers, 2000a:11027**
(Berndt, Bruce C.) *see* **Continued fractions: from analytic number theory to constructive approximation, 2000d:00018**
(Branson, Thomas P.) *see* **Spectral problems in geometry and arithmetic, 2000d:00016**
(Buchmann, Johannes) *see* **Coding theory, cryptography and related areas, 2000k:94001**
(Gesztesy, Fritz) *see* **Continued fractions: from analytic number theory to constructive approximation, 2000d:00018**
(Høholdt, Tom) *see* **Coding theory, cryptography and related areas, 2000k:94001**
(Horadam, Alwyn F.) *see* **Applications of Fibonacci numbers, 2000a:11027**
(Lange, L. J.) *see* **Continued fractions: from analytic number theory to constructive approximation, 2000d:00018**
(Philippou, Andreas N.) *see* **Applications of Fibonacci numbers, 2000a:11027**
(Stichtenoth, Henning) *see* **Coding theory, cryptography and related areas, 2000k:94001**
(Tapia-Recillas, Horacio) *see* **Coding theory, cryptography and related areas, 2000k:94001**

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Applications of Fibonacci numbers ★ Applications of Fibonacci numbers. Vol. 7. **2000a:11027**
Coding theory, cryptography and related areas ★ Coding theory, cryptography and related areas. **2000k:94001**
Columbia, MO ★ Continued fractions: from analytic number theory to constructive approximation. **2000d:00018**
Conference:
Coding Theory, Cryptography and Related Areas ★ Coding theory, cryptography and related areas. **2000k:94001**
Continued Fractions: From Analytic Number Theory to Constructive Approximation ★ Continued fractions: from analytic number theory to constructive approximation. **2000d:00018**
Fibonacci Numbers and their Applications ★ Applications of Fibonacci numbers. Vol. 7. **2000a:11027**
Spectral Problems in Geometry and Arithmetic ★ Spectral problems in geometry and arithmetic. **2000d:00016**
Contemporary Mathematics ★ Spectral problems in geometry and arithmetic. **2000d:00016**
— ★ Continued fractions: from analytic number theory to constructive approximation. **2000d:00018**
Continued fractions: from analytic number theory to constructive approximation ★ Continued fractions: from analytic number theory to constructive approximation. **2000d:00018**
Festschrift:
Lange, Leo Jerome ★ Continued fractions: from analytic number theory to constructive approximation. **2000d:00018**
Graz ★ Applications of Fibonacci numbers. Vol. 7. **2000a:11027**
Guanajuato ★ Coding theory, cryptography and related areas. **2000k:94001**
Iowa City, IA ★ Spectral problems in geometry and arithmetic. **2000d:00016**
Spectral problems in geometry and arithmetic ★ Spectral problems in geometry and arithmetic. **2000d:00016**

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Ando, Shiro (*with* Long, Calvin T.; Sato, Daihachiro) Generalizations to large hexagons of the Star of David theorem with respect to GCD. (*see* **2000a:11027**)
Boros, Zoltán (*with* Száz, Árpád) The smallest denominator function and the Riemann function. (English summary) **2000h:11003**
— (*with* Száz, Árpád) Some number-theoretic applications of the smallest denominator function. (English summary) **2000h:11004**
Chen, Ying Shu A general formula for a multiple sum expression of the greatest common divisor and its application. (Chinese. English and Chinese summaries) **2000a:11006**
Cooperman, G. D. (*with* Feisel, Sandra; von zur Gathen, Joachim; Havas, George) GCD of many integers (extended abstract). (English summary) (*see* **2000h:68012**)
Feisel, Sandra *see* **Cooperman, G. D. et al.**, (**2000h:68012**)
von zur Gathen, Joachim *see* **Cooperman, G. D. et al.**, (**2000h:68012**)
Goncharov, A. B. The arithmetic of Gaussian integers [Kvant **1985**, no. 12, 8–13]. (*see* **2000m:11003**)
Havas, George *see* **Cooperman, G. D. et al.**, (**2000h:68012**)
Long, Calvin T. (*with* Webb, William A.) Analysis of the Euclidean and related algorithms. (*see* **2000a:11027**)
— *see also* **Ando, Shiro et al.**, (**2000a:11027**)
Martin, Greg Farmer Ted goes natural. **2000h:11005**
Polons'kiĭ, V. B. (*with* Yakīr, M. S.) Remarks on a module. (Ukrainian) **2000k:11005**
Sato, Daihachiro *see* **Ando, Shiro et al.**, (**2000a:11027**)
Száz, Árpád *see* **Boros, Zoltán, 2000h:11003** *and* **2000h:11004**
Webb, William A. *see* **Long, Calvin T.**, (**2000a:11027**)
Yakīr, M. S. *see* **Polons'kiĭ, V. B., 2000k:11005**

Items with secondary classifications in 11A05

Cohen, G. L. (*with* Deng, Mou Jie) On a generalisation of Ore's harmonic numbers. **2000k:11008**
Coutinho, S. C. ★ The mathematics of ciphers. (English summary) **2000b:11001**
Deng, Mou Jie *see* **Cohen, G. L., 2000k:11008**
Erdős, Paul[1] (*with* Kolesnik, Grigori) Prime power divisors of binomial coefficients. (English summary) **2000f:11017**
Kolesnik, Grigori *see* **Erdős, Paul[1]**, **2000f:11017**

11A07 Congruences; primitive roots; residue systems

Atanassov, Krassimir T. On the 126-th Smarandache's problem.
— On the 118-th Smarandache's problem.
Badoev, V. A. An algorithm for the translation of a number written in modular arithmetic to the pth positional number system. (Russian) **2000i:11004**
Banaszak, Grzegorz Mod p logarithms $\log_2 3$ and $\log_3 2$ differ for infinitely many primes. **2000f:11004**
Chen, Yong Gao A theorem on harmonic sequences. (English summary) **2000a:11007**
— On integers of the form $2^k \pm p_1^{\alpha_1} p_2^{\alpha_2} \cdots p_r^{\alpha_r}$. (English summary) **2000j:11006**
Du, Bau-Sen Congruence identities arising from dynamical systems. (English summary) **2000k:11006**
Gao, Li *see* **Wang, Hui[1] et al., 2000c:11006**
Halbeisen, Lorenz (*with* Hungerbühler, Norbert; Läuchli, Hans) Powers and polynomials in Z_m. (German summary) **2000i:11005**
Hong, Shao Fang *see* **Sun, Qi, 2000k:11007**
Hu, Zhi Xing *see* **Wang, Hui[1] et al., 2000c:11006**
Hungerbühler, Norbert *see* **Halbeisen, Lorenz et al., 2000i:11005**
Kohnen, Winfried Some congruences modulo primes. (English summary) **2000f:11005**
Läuchli, Hans *see* **Halbeisen, Lorenz et al., 2000i:11005**
Leyendekkers, J. V. (*with* Shannon, Anthony G.) Fermat and Mersenne numbers and some related factors. (English summary) **2000f:11006**
Li, Jia Kun (*with* Shan, Zun) A conjecture in combinatorial number theory. (Chinese. English and Chinese summaries) **2000i:11006**
Luo, Yong Chao The theorem that no two consecutive integers are Fermat solutions for the same odd prime p. (Chinese. English and Chinese summaries) **2000i:11007**
Murthy, Amarnath On the divisors of Smarandache unary sequence. (English summary)
Nimbran, Amrik Singh Some remarks on Wilson's theorem. **2000m:11005**
— Repeating numbers. **2000m:11006**
Pop, Maria S. Une généralisation d'une équation arithmétique de D. Pompeiu. (French summary) [A generalization of an arithmetical equation of D. Pompeiu] **2000c:11005**
Rotkiewicz, Andrzej Periodic sequences of pseudoprimes connected with Carmichael numbers and the least period of the function l_x^C. **2000h:11006**
Shan, Zun *see* **Li, Jia Kun, 2000i:11006**
Shannon, Anthony G. *see* **Leyendekkers, J. V., 2000f:11006**
Soublin, Jean-Pierre Une congruence pour les coefficients binomiaux. (English and French summaries) [A congruence for binomial coefficients] **2000e:11003**
Sun, Qi (*with* Hong, Shao Fang) A p-adic proof of Wolstenholme's theorem and its generalization. (Chinese. English and Chinese summaries) **2000k:11007**
Vasilenko, O. N. On some properties of Fermat numbers. (Russian) **2000g:11006**
Wang, Hui[1] (*with* Wang, Shi Qin; Hu, Zhi Xing; Gao, Li) On the odd powers of the difference between a primitive root and its inverse modulo N, and a generalization. (Chinese. English and Chinese summaries) **2000c:11006**
Wang, Rui[2] Congruence relations on mod p subsystems. (Chinese. English and Chinese summaries) **2000c:11007**
Wang, Shi Qin *see* **Wang, Hui[1] et al., 2000c:11006**
Wang, Xiao Mei The congruence $n\sigma(n) \equiv 2 \pmod{\varphi(n)}$. (Chinese. English and Chinese summaries) **2000d:11004**
Zhang, Wen Peng On the primitive roots and the quadratic residues modulo p. (English summary) **2000d:11005**

Items with secondary classifications in 11A07

Andrews, George E. q-analogs of the binomial coefficient congruences of Babbage, Wolstenholme and Glaisher. (English summary) **2000f:11015**
Coutinho, S. C. ★ The mathematics of ciphers. (English summary) **2000b:11001**
Dujella, Andrej Diophantine quadruples and quintuples modulo 4. (English summary)
Elliott, P. D. T. A. (*with* Murata, Leo) The least primitive root mod $2p^2$. **2000e:11118**
Erdős, Paul[1] (*with* Murty, Maruti Ram) On the order of $a \pmod{p}$. **2000c:11152**
Ford, Kevin B. (*with* Konyagin, Sergei V.; Pomerance, Carl) Residue classes free of values of Euler's function. **2000f:11120**
Han, Qing[2] Numbers of solutions of congruences and rationality of generating functions. (English summary) **2000f:11036**
— The number of solutions of a general diagonal congruence. (Chinese. English and Chinese summaries) **2000k:11048**
— The number of solutions of certain diagonal congruences in 2 variables. (Chinese. English and Chinese summaries) **2000k:11049**
Huang, I-Chiau (*with* Huang, Su-Yun) Bernoulli numbers and polynomials via residues. (English summary) **2000d:11027**
Huang, Su-Yun *see* **Huang, I-Chiau, 2000d:11027**
Konyagin, Sergei V. *see* **Ford, Kevin B. et al., 2000f:11120**
Li, Hua-Chieh Fibonacci primitive roots and Wall's question. **2000a:11026**
Li, Zhong Xian (*with* Wang, Chang Qun; Lu, Li Ping) Some problems on modular arithmetic. (Chinese. English and Chinese summaries) **2000j:11193**
Lu, Chao (*with* Qin, Bi Hua) Diophantine equations over finite fields. (Chinese. English and Chinese summaries) **2000k:11050**
Lu, Li Ping *see* **Li, Zhong Xian et al., 2000j:11193**
Murata, Leo *see* **Elliott, P. D. T. A., 2000e:11118**

Murty, Maruti Ram Artin's conjecture and elliptic analogues. **2000a:11098**
— *see also* **Erdős, Paul[1], 2000c:11152**
Polons'kiĭ, V. B. (*with* Yakīr, M. S.) Remarks on a module. (Ukrainian) **2000k:11005**
Pomerance, Carl *see* **Ford, Kevin B. et al., 2000f:11120**
Qin, Bi Hua *see* **Lu, Chao, 2000k:11050**
Rotkiewicz, Andrzej Solved and unsolved problems on pseudoprime numbers and their generalizations. **2000j:11010**
Shonhiwa, Temba On a class of prime-detecting congruences. (English summary) **2000d:11015**
Slavutskiĭ, Ilya About von Staudt congruences for Bernoulli numbers. (English summary) **2000f:11022**
Teske, Edlyn Speeding up Pollard's rho method for computing discrete logarithms. (English summary) **2000j:11199**
Wang, Chang Qun *see* **Li, Zhong Xian et al., 2000j:11193**
Yakīr, M. S. *see* **Polons'kiĭ, V. B., 2000k:11005**

11A15 Power residues, reciprocity

Grytczuk, Krystyna Remark on a general arithmetic Fourier transform. (English summary) **2000d:11006**
Ishii, Hidenori Functional equations and the law of quadratic reciprocity. (English summary) **2000a:11008**
Motose, Kaoru On commutative group algebras. III. **2000c:11008**
van der Poorten, Alfred J. (*with* Walsh, P. Gary) A note on Jacobi symbols and continued fractions. **2000e:11004**
Walsh, P. Gary *see* **van der Poorten, Alfred J., 2000e:11004**

Items with secondary classifications in 11A15

Costa, Douglas L. (*with* Keller, Gordon E.) Power residue symbols and the central sections of $SL(2, A)$. (English summary) **2000b:20063**
Keller, Gordon E. *see* **Costa, Douglas L., 2000b:20063**
Zaharescu, Alexandru Density of zeros of $L(s, \chi)$ near $s = 1$ and the smallest character nonresidue. (English and French summaries) **2000m:11077**

11A25 Arithmetic functions; related numbers; inversion formulas

Aladjov, Hristo T. (*with* Atanassov, Krassimir T.) On the 97-th, the 98-th and the 99-th Smarandache's problems.
Ashbacher, Charles On iterations that alternate the pseudo-Smarandache and classic functions of number theory.
Atanassov, Krassimir T. On the 61-st, the 62-nd, and the 63-th Smarandache's problem.
— On the 4-th Smarandache's problem.
— On the 16-th Smarandache's problem.
— On the 22-nd, the 23-th, and the 24-th Smarandache's problems.
— On the 37-th and 38-th Smarandache's problems.
— On the 100-th, the 101-st and the 102-nd Smarandache's problems.
— On the 125-th Smarandache's problem.
— *see also* **Atanassova, Vassia K.** *and* **Aladjov, Hristo T.**
Atanassova, Vassia K. (*with* Atanassov, Krassimir T.) On the 43-rd and 44-th Smarandache's problems.
Bălăcenoiu, I. (*with* Bordea, D.; Seleacu, Vasile) Numerical functions and triplets.
Balasekhar, J. *see* **Subrahmanya Sastri, V. V. et al., 2000d:11014**
Bencze, Mihály One competition problem and its applications. **2000d:11007**
— The application of a few sequences in the theory of numbers.
Bhattacharjee, Debashis On some rings of arithmetical functions. (English summary) **2000d:11008**
Bordea, D. *see* **Bălăcenoiu, I. et al.**
Buschman, R. G. A Möbius function generalization. (English summary) **2000d:11009**
Chen, Rongi (*with* Le, Mao Hua) On the functional equation $S(n)^2 + S(n) = kn$. (English summary)
— On the functional equation $(S(n))^r + (S(n))^{r-1} + \cdots + S(n) = n$. (English summary)
Cohen, G. L. (*with* Deng, Mou Jie) On a generalisation of Ore's harmonic numbers. **2000k:11008**
Cook, Roger J. Bounds for odd perfect numbers. (English summary) **2000d:11010**
Deng, Mou Jie *see* **Cohen, G. L., 2000k:11008**
Duan, Wen Ying *see* **Guo, Shang Xin**
El-Kassar, A. N. On values of n for which $\varphi(n + 2) = \varphi(n)$. (English summary) **2000h:11007**
Ewell, John A. On necessary conditions for the existence of odd perfect numbers. (English summary) **2000c:11009**
Furneri, Salvatore *see* **di Gennaro, Fernando, 2000e:11005**
di Gennaro, Fernando (*with* Furneri, Salvatore) On C_λ and F_λ multiplicative functions in Dirichlet ring. (English summary) **2000e:11005**
Grytczuk, Aleksander (*with* Wójtowicz, Marek) There are no small odd perfect numbers. (English and French summaries) **2000f:11007**
Guo, Shang Xin (*with* Duan, Wen Ying) Some properties of the multiplicative arithmetical function $\varphi(n)$. (Chinese. English and Chinese summaries)
Haukkanen, Pentti Basic properties of the bi-unitary convolution and the semi-unitary convolution. (English summary) **2000i:11008**
— Rational arithmetical functions of order $(2, 1)$ with respect to regular convolutions. (English summary) **2000h:11008**
Hong, Shao Fang Lower bounds for determinants of matrices associated with classes of arithmetical functions. (English summary) **2000c:11010**
Ibrahim, Abd El-Hamid M. On the search for perfect numbers. (English summary)
— On multiply perfect numbers. (English summary)
Jakubec, Stanislav Prime periods of periodical P-additive functions. **2000c:11011**
Kirillov, Aleksandr Aleksandrovich On regular polygons, Euler's function, and Fermat numbers [Kvant **1977**, no. 7, 2–9]. (*see* **2000m:11003**)
Korec, Ivan Additive conditions on sums of squares. (English summary) **2000a:11009**
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11A51 Factorization; primality

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11A55 Continued fractions {For approximation results, see 11J70.} [see also 11K50, 30B70, 40A15]

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11A63 Radix representation; digital problems {For metric results, see 11K16.}

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11A99 None of the above, but in this section

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11Bxx Sequences and sets

11B05 Density, gaps, topology

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— Another characterization of Sturmian words (one more). (English summary) **2000c:68113**
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— *see also* **Glaister, Ian, 2000e:68094**
Skordev, Gencho *see* **Barbé, André et al., 2000d:37009**
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Wen, Zhi Ying *see* **Nishioka, Kumiko et al., 2000f:11095** *and* **2000g:11069**
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Symposium:
Languages, Algebra and Computer Systems ★ Gengo, daisū kei oyobi keisanki shisutemu. [Languages, algebra and computer systems] **2000m:68007**

11B99 None of the above, but in this section

Items with secondary classifications in 11B99

Li, Zhen Guo The numbers of subspaces of $V(F, n)$ having certain properties P. (Chinese. English and Chinese summaries)

11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

Bernardes, Nilson C., Jr. On sums of products of polynomials. (English summary) **2000j:11038**
Elia, Michele *see* **Filipponi, Piero, 2000k:11039**
Filipponi, Piero (*with* Elia, Michele) The factorization of $x^5 \pm p^2x - k$ and Fibonacci numbers. **2000k:11039**
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Kobayashi, Shigeru (*with* Yoshikawa, Ryugo) Algebraic properties of polynomial iterations. (English summary) **2000a:11036**
Ruzsa, Imre Z. On Mahler's measure for polynomials in several variables. (English summary) **2000c:11041**
Schlickewei, Hans Peter (*with* Viola, Carlo) Polynomials that divide many k-nomials. **2000d:11037**
Stefaneas, Petros S. A note on Eisenstein's criterion. (English summary) **2000d:11038**
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Borisov, Alexandr (*with* Filaseta, Michael; Lam, Tsit-Yuen; Trifonov, Ognian) Classes of polynomials having only one non-cyclotomic irreducible factor. **2000k:11117**
Buhler, J. P. (*with* Reichstein, Zinovy) On Tschirnhaus transformations. (English summary) **2000b:12003**
DiPippo, Stephen A. (*with* Howe, Everett W.) Real polynomials with all roots on the unit circle and abelian varieties over finite fields. (English summary) **2000c:11101**
Dubickas, Artūras On a polynomial with large number of irreducible factors. (English summary) **2000c:11176**
— Polynomials with high multiplicity at unity and Tarry's problem. (Russian. Russian summary) **2000j:11156**
Everest, Graham Measuring the height of a polynomial. **2000b:11115**
— (*with* Ward, Thomas B.) ★ Heights of polynomials and entropy in algebraic dynamics. (English summary) **2000c:11087**
Filaseta, Michael On the factorization of polynomials with small Euclidean norm. **2000c:11177**
— (*with* Solan, Ikhalfani) An extension of a theorem of Ljunggren. **2000b:11116**
— *see also* **Borisov, Alexandr et al., 2000k:11117**
Halbeisen, Lorenz (*with* Hungerbühler, Norbert; Läuchli, Hans) Powers and polynomials in Z_m. (German summary) **2000i:11005**
Howe, Everett W. *see* **DiPippo, Stephen A., 2000c:11101**
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Kollár, János Effective Nullstellensatz for arbitrary ideals. (English summary) **2000h:13014**
Konyagin, Sergei V. On the number of irreducible polynomials with 0, 1 coefficients. **2000f:11140**
Lam, Tsit-Yuen *see* **Borisov, Alexandr et al., 2000k:11117**
Langevin, Michel Liens entre le théorème de Mason et la conjecture (abc). (English and French summaries) [Connections between Mason's theorem and the (abc) conjecture] **2000b:11033**
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Lenstra, H. W., Jr. On the factorization of lacunary polynomials. (English summary) **2000c:11178**
Liu, Ping An application of Fermat numbers to group theory. (Chinese. English and Chinese summaries) **2000h:11011**
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Ruppert, Wolfgang M. Reducibility of polynomials $f(x, y)$ modulo p. (English summary) **2000d:11128**
Smyth, C. J. An inequality for polynomials. (English summary) **2000d:11145**
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11C20 Matrices, determinants [see also 15A36]

Ahuja, Mangho *see* **Palmer, Leonard et al., 2000j:11039**
Gerth, Frank, III Some asymptotics for triangular matrices over finite fields. (English summary) **2000c:11042**
Grytczuk, Aleksander On a conjecture about the equation $A^{mx} + A^{my} = A^{mz}$. (English summary) **2000i:11043**
Hong, Shao Fang On the Bourque-Ligh conjecture of least common multiple matrices. (English summary) **2000g:11017**
Katre, S. A. (*with* Khule, Sangita A.) Matrices over orders in algebraic number fields as sums of kth powers. (English summary) **2000e:11026**
Khule, Sangita A. *see* **Katre, S. A., 2000e:11026**
Palmer, Leonard (*with* Ahuja, Mangho; Tikoo, Mohan) Constructing Pythagorean triple preserving matrices. **2000j:11039**
Ratliff, L. J., Jr. (*with* Rush, David E.) Triangular powers of integers from determinants of binomial coefficient matrices. (English summary) **2000i:11044**
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Tang, Tai Ming The Goldbach problem in $M_n(\mathbf{Z})$. (Chinese. English and Chinese summaries) **2000d:11039**
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Hong, Shao Fang Lower bounds for determinants of matrices associated with classes of arithmetical functions. (English summary) **2000c:11010**
Kuroda, Mitsuru[2] On Rosenfeld's problem. (English summary) **2000e:11151**
Necer, Abdelkader Systèmes récursifs et algèbre de Hadamard de suites récurrentes linéaires sur des anneaux commutatifs. (French summary) [Recursive systems and Hadamard algebra of linear recurrence sequences over commutative rings] **2000i:11041**
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Wang, Chong Shou *see* **Wei, Hong Zeng et al., 2000c:11200**
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Zhang, Yi Bin *see* **Wei, Hong Zeng et al., 2000c:11200**
Zhang, Zhi Zheng (*with* Wang, Tian Ming) Generalized Pascal matrix and recurrence sequences. (English summary) **2000a:15025**

11C99 None of the above, but in this section

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11Dxx Diophantine equations [see also 11Gxx, 14Gxx]

Items with secondary classifications in 11Dxx

Smart, Nigel P. ★ The algorithmic resolution of Diophantine equations. (English summary) **2000c:11208**

11D04 Linear equations

Atasoy, Muzaffer The linear Diophantine equation with n-unknowns in $\mathbf{Q}(\sqrt{5})$. (English summary) **2000k:11041**
Bencze, Mihály Applying of recurrent sequences in the theory of Diophantes's equations.
Chebrakov, Y. V. Advance of Smarandache approach to solving systems of Diophantine equations. (English summary)
Morikawa, Ryozo Some equations that have solutions in natural numbers. (Japanese) (*see* **2000j:11002**)
Xiao, Guo Neng A probability method to solve indeterminate equations and its connections with number theory and combinatorics. (Chinese. English and Chinese summaries) **2000j:11041**

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Chen, Ying Shu A general formula for a multiple sum expression of the greatest common divisor and its application. (Chinese. English and Chinese summaries) **2000a:11006**
Evertse, Jan-Hendrik The number of solutions of linear equations in roots of unity. **2000e:11033**
Ispas, Mihai Consideration on solving some Diophantine equations with applications in technics (matrix solutions). (English and Romanian summaries) **2000e:11027**
Plagne, Alain On the two-dimensional subset sum problem. (English and French summaries) **2000j:11148**
Sertöz, A. Sinan On the number of solutions of the Diophantine equation of Frobenius. (Russian. Russian summary) **2000a:11049**
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Zhou, Ding-Xuan Some characterizations for box spline wavelets and linear Diophantine equations. (English summary) **2000g:42057**

11D09 Quadratic and bilinear equations

Atanassov, Krassimir T. *see* **Vassilev-Missana, Mladen V.**
Beauregard, Raymond A. (*with* Suryanarayan, E. R.) Integral triangles. **2000h:11024**
Bencze, Mihály On one of Fibonacci's problems.
Cai, Tianxin (*with* Jiao, Rong Zheng) The Diophantine equation $xy + yz + zx = m$. (English summary) **2000i:11045**
Chen, Zhi Yun The system of Diophantine equations $(m+2)x^2 - my^2 = 2$, $(4m+4)y^2 - (m+2)z^2 = 3m+2$. (Chinese. English and Chinese summaries) **2000d:11040**
Dujella, Andrej An extension of an old problem of Diophantus and Euler.
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Jiao, Rong Zheng *see* **Cai, Tianxin, 2000i:11045**
Khessami Pilerud, Kh. On the Diophantine equation $x^2 - Ny^2 = -1$. (Russian) **2000f:11029**
Long, Calvin T. (*with* Webb, William A.) Fundamental solutions of $u^2 - 5v^2 = -4r^2$. (*see* **2000a:11027**)
Pan, Jiayu (*with* Zhang, Yuping; Zou, Rong) The Pell equations $x^2 - 8y^2 = 1$ and $y^2 - Dz^2 = 1$. (English summary) **2000e:11028**
Pelantová, E. (*with* Perelomov, A. M.) A remark on Diophantine equations associated with quasicrystals. (Russian. Russian summary) **2000b:11023**
Perelomov, A. M. *see* **Pelantová, E., 2000b:11023**
Subramaniam, K. B. Almost square triangular numbers. **2000f:11030**
Sun, Ai Ling Solvability of the equation $ax^2 + by^2 + cz^2 = 0$ in quadratic fields. (Chinese. English and Chinese summaries) **2000g:11018**
Suryanarayan, E. R. *see* **Beauregard, Raymond A., 2000h:11024**
Tudoran, Răzvan The determination of general solutions starting from individual solution in the Diophantic equation $x^2 + y^2 = z^2$.
Vassilev-Missana, Mladen V. (*with* Atanassov, Krassimir T.) Note on the Diophantine equation $2x^2 - 3y^2 = p$.
Webb, William A. *see* **Long, Calvin T., (2000a:11027)**
Yuan, Ping Zhi Positive solutions of the Diophantine equation $xy + yz + zx = n$. (Chinese. Chinese summary) **2000d:11041**
Zay, Béla An application of the continued fractions for $\sqrt{D}$ in solving some types of Pell's equations. (English summary) **2000j:11042**
Zhang, Yuping *see* **Pan, Jiayu et al., 2000e:11028**
Zou, Rong *see* **Pan, Jiayu et al., 2000e:11028**

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(Chen, Gang[3]) *see* **Mallat, Stéphane**
(Chi, Zhe Ru) *see* **Mallat, Stéphane**
Dujella, Andrej A problem of Diophantus and Pell numbers. (*see* **2000a:11027**)
Krausz, T. A note on equal values of polygonal numbers. (English summary) **2000m:11025**
Louboutin, Stéphane (*with* Mollin, Richard A.) Solutions to $x^2 - Dy^2 = Q$. (English summary) **2000f:11138**
Mallat, Stéphane Applied mathematics meets signal processing. (Chinese. English and Chinese summaries)
Mollin, Richard A. Continued fraction gems. (English summary) **2000m:11008**
— *see also* **Louboutin, Stéphane, 2000f:11138**
Sastry, K. R. S. Heron triangles: a new perspective. **2000h:51031**
Tuzson, Zoltán From k-angle numbers to Pell type equations.
(Zhang, Dan[3]) *see* **Mallat, Stéphane**

11D25 Cubic and quartic equations

(Bass, Hyman) *see* **Kaplansky, Irving, 2000k:11043**
Bennett, Michael A. On consecutive integers of the form ax^2, by^2 and cz^2. **2000b:11024**
— (*with* Walsh, P. Gary) The Diophantine equation $b^2X^4 - dY^2 = 1$. (English summary) **2000b:11025**
Bremner, Andrew On squares of squares. **2000f:11031**
Button, J. O. The uniqueness of the prime Markoff numbers. (English summary) **2000c:11043**
Cao, Zhen Fu (*with* Dong, Xiao Lei) On the Diophantine equation $x^3 + z^3 = Dy^2$. (Chinese. English and Chinese summaries) **2000e:11029**
Choudhry, Ajai On equal sums of cubes. (English summary) **2000c:11044**
— The general solution of a cubic Diophantine equation. (English summary)
— On the quartic Diophantine equation $f(x,y) = f(u,v)$. (English summary) **2000d:11042**
Clarke, J. H. (*with* Shannon, Anthony G.) Some observations on the Diophantine equation $u^2 + v^2 = x^3 + y^3$. (English summary)
(Dickson, Leonard Eugene) *see* **Kaplansky, Irving, 2000k:11043**
Dong, Xiao Lei On the Diophantine equation $x^3 + a^3 = Dy^2$. (Chinese. English and Chinese summaries) **2000a:11038**
— *see also* **Cao, Zhen Fu, 2000e:11029**
Dussaud, René Sur quelques descentes arithmétiques. (French summary) [On some arithmetical descents] **2000g:11019**
Erdélyi, Tamás On the equation $a(a+d)(a+2d)(a+3d) = x^2$. **2000k:11042**
(Euler, Leonhard) *see* **Kaplansky, Irving, 2000k:11043**
Heath-Brown, D. R. The solubility of diagonal cubic Diophantine equations. **2000f:11032**
Izotov, Anatoly S. On the form of solutions of Martin Davis' Diophantine equation. **2000e:11030**
Kaplansky, Irving A salute to Euler and Dickson on the occasion of Hy's 65th birthday. (English summary) **2000k:11043**
Krausz, T. A note on equal values of polygonal numbers. (English summary) **2000m:11025**
Kreĭn, Mark Grigor'evich Markov's Diophantine equation [Kvant **1985**, no. 4, 13–16]. (*see* **2000m:11003**)
Li, Fu Zhong On the Diophantine equation $x^3 \pm (3^k)^3 = Dy^2$. (Chinese. English and Chinese summaries) **2000a:11039**
— On the family of Diophantine equations $x^3 \pm (5^k)^3 = Dy^2$. (Chinese. English and Chinese summaries) **2000c:11045**

Poulakis, Dimitrios A simple method for solving the Diophantine equation $Y^2 = X^4 + aX^3 + bX^2 + cX + d$. (German summary) **2000a:11040**
Shannon, Anthony G. *see* **Clarke, J. H.**
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Szabó, Sándor The Diophantine equation $x^4 + y^4 = z^2$ in $\mathbf{Q}(\sqrt{-2})$. (English summary) **2000i:11046**
Togbé, Alain On the solutions of a family of quartic Thue equations. (English summary) **2000i:11047**
Tuzson, Zoltán Cubic numbers, which are tetrahedron numbers at the same time.
Tzanakis, Nikos *see* **Stroeker, Roelof J., 2000d:11043**
Walsh, P. Gary The Diophantine equation $X^2 - db^2Y^4 = 1$. **2000e:11031**
— A note on a theorem of Ljunggren and the Diophantine equations $x^2 - kxy^2 + y^4 = 1, 4$. (English summary) **2000i:11048**
— *see also* **Bennett, Michael A., 2000b:11025**

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Beukers, Frits Integral points on cubic surfaces. (English summary) **2000b:11072**
Bremner, Andrew On arithmetic progressions on elliptic curves. (English summary) **2000k:11068**
Buchholz, R. H. (*with* MacDougall, James A.) Heron quadrilaterals with sides in arithmetic or geometric progression. (English summary) **2000c:51019**
Cao, Zhen Fu The Diophantine equations $x^4 + y^4 = z^p$. (Chinese. English and Chinese summaries) **2000h:11025**
Chakraborty, Kalyan (*with* Kulkarni, Manisha V.) Solutions of cubic equations in quadratic fields. (English summary) **2000b:11062**
Cipu, Mihai Gorenstein algebras with pure resolution. (English summary) **2000e:13033**
Gebel, Josef *see* **Pethő, Attila et al., 2000f:11069**
Herrmann, Emanuel *see* **Pethő, Attila et al., 2000f:11069**
Kreĭn, Mark Grigor'evich The Markov equation. **2000m:11055**
Kulkarni, Manisha V. *see* **Chakraborty, Kalyan, 2000b:11062**
MacDougall, James A. *see* **Buchholz, R. H., 2000c:51019**
Ni, Gu Yan On the Diophantine equation $x^3 \pm p^{3n} = Dy^2$. II. (Chinese. English and Chinese summaries) **2000b:11031**
Pan, Jiayu (*with* Zhang, Yuping; Zou, Rong) The Pell equations $x^2 - 8y^2 = 1$ and $y^2 - Dz^2 = 1$. (English summary) **2000e:11028**
Pethő, Attila (*with* Zimmer, Horst Günter; Gebel, Josef; Herrmann, Emanuel) Computing all S-integral points on elliptic curves. **2000f:11069**
Poulakis, Dimitrios Bounds for the size of integral solutions to $Y^m = f(X)$. (English summary) **2000a:11041**
Tsui, William Y. (*with* Wooley, Trevor D.) The paucity problem for simultaneous quadratic and biquadratic equations. **2000a:11043**
Wilson, David W. The fifth taxicab number is 48 988 659 276 962 496. (English summary) **2000i:11195**
Wooley, Trevor D. *see* **Tsui, William Y., 2000a:11043**
Zhang, Hai Yan On the Diophantine equation $x^3 \pm (2^n)^3 = 3Dy^2$. (Chinese. English and Chinese summaries) **2000b:11032**
Zhang, Yuping *see* **Pan, Jiayu et al., 2000e:11028**
Zimmer, Horst Günter *see* **Pethő, Attila et al., 2000f:11069**
Zou, Rong *see* **Pan, Jiayu et al., 2000e:11028**

11D41 Higher degree equations; Fermat's equation

Athanasopoulos, S. N. An algebraic proof of Fermat's last theorem. (English summary) **2000b:11026**
Beukers, Frits (*with* Shorey, Tarlok N.; Tijdeman, Robert) Irreducibility of polynomials and arithmetic progressions with equal products of terms. (English summary) **2000c:11046**
Cao, Zhen Fu The Diophantine equations $x^4 + y^4 = z^p$. (Chinese. English and Chinese summaries) **2000h:11025**
Choudhry, Ajai The Diophantine equation $ax^5 + by^5 + cz^5 = au^5 + bv^5 + cw^5$. (English summary) **2000h:11026**
Cohn, J. H. E. The Diophantine equation $x^2 + 2^k = y^n$. II. (English summary) **2000i:11049**
Dussaud, René Une anomalie arithmétique. [An arithmetical anomaly] (*see* **2000c:00026**)
— Équations numériques de Cauchy. (French summary) [Numerical Cauchy equations] (*see* **2000c:00026**)
— Une construction diophantienne. (French summary) [A Diophantine construction] (*see* **2000c:00026**)
Ivanenko, N. L. (*with* Mazorchuk, Vladimir) Fermat's last theorem. (Ukrainian) **2000k:11044**
Jiang, Chun Xuan Fermat last theorem was proved in 1991. (*see* **2000k:00034**)
Luca, Florian On a Diophantine equation.
Luo, Jia Gui The Diophantine equation $(a^n x^m \pm 1)/(a^n x \pm 1) = y^n + 1$. (Chinese. English and Chinese summaries)
Mazorchuk, Vladimir *see* **Ivanenko, N. L., 2000k:11044**
Mignotte, Maurice (*with* Pethő, Attila) On the Diophantine equation $x^p - x = y^q - y$. (English summary) **2000d:11044**
Obi, Chike Fermat's last theorem. (English summary) **2000b:11027**
— Fermat's last theorem. (English summary) (*see* **2000k:00034**)
Pethő, Attila *see* **Mignotte, Maurice, 2000d:11044**
Poulakis, Dimitrios Bounds for the size of integral solutions to $Y^m = f(X)$. (English summary) **2000a:11041**
Shorey, Tarlok N. *see* **Beukers, Frits et al., 2000c:11046**
Sitaraman, Sankar On a Fermat-type Diophantine equation. (English summary) **2000k:11045**
Thomas, Emery Counting solutions to trinomial Thue equations: a different approach. (English summary) **2000m:11026**
Tijdeman, Robert *see* **Beukers, Frits et al., 2000c:11046**
Walsh, P. Gary On a conjecture of Schinzel and Tijdeman. (English summary) **2000e:11032**
Zuehlke, John A. Fermat's last theorem for Gaussian integer exponents. **2000b:11028**

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Beato Sirvent, Jesús Fermat's last theorem. Diary of a conquest. (Spanish. Spanish summary) **2000m:11001**
Brindza, Béla (*with* Pintér, Ákos; Turjányi, S.) On equal values of pyramidal and polygonal numbers. **2000c:11049**
(Brown, Martin L.) *see* **Serre, Jean-Pierre, 2000m:11049**
Cao, Zhen Fu On the Diophantine equation $x^p + 2^{2m} = py^2$. (English summary) **2000m:11028**
Katayama, Shin-ichi The *abc* conjecture and the fundamental system of units of certain real bicyclic biquadratic fields. **2000k:11121**
Liu, Xue Fei On the indefinite equation $\sum_{i=1}^{k} a_i x_i^{n_i} = y^m$. (Chinese. English and Chinese summaries)
Mazur, Barry C. Questions about powers of numbers. **2000k:11111**
Merel, Loïc Arithmetic of elliptic curves and Diophantine equations. (English and French summaries) **2000j:11084**
Pintér, Ákos *see* **Brindza, Béla et al., 2000c:11049**
Sander, J. W. Rational points on a class of superelliptic curves. **2000d:11084**
Serre, Jean-Pierre ★ Lectures on the Mordell-Weil theorem. (English summary) **2000m:11049**
Suominen, Kalevi Elliptic curves and Fermat's theorem. (Finnish. Finnish summary)
Turjányi, S. *see* **Brindza, Béla et al., 2000c:11049**
(Waldschmidt, Michel) *see* **Serre, Jean-Pierre, 2000m:11049**

11D45 Counting solutions of Diophantine equations

Evertse, Jan-Hendrik The number of solutions of linear equations in roots of unity. **2000e:11033**
Heath-Brown, D. R. Counting rational points on cubic surfaces. (English summary) **2000a:11042**
Kirschenhofer, Peter (*with* Pethő, Attila; Tichy, Robert F.) On analytical and Diophantine properties of a family of counting polynomials. (English summary) **2000g:11020**
Le, Mao Hua An upper bound for the number of solutions of the exponential Diophantine equation $a^x + b^y = c^z$. (English summary) **2000i:11050**
Pethő, Attila *see* **Kirschenhofer, Peter et al., 2000g:11020**
Shevelev, V. S. On the number of solutions of the congruence $\sum_{i=1}^{s} x_i \equiv r \pmod{k}$. (Russian. English and Russian summaries) **2000e:11034**
Tichy, Robert F. *see* **Kirschenhofer, Peter et al., 2000g:11020**
Tsui, William Y. (*with* Wooley, Trevor D.) The paucity problem for simultaneous quadratic and biquadratic equations. **2000a:11043**
Voloch, José Felipe The equation $ax + by = 1$ in characteristic p. **2000b:11029**
Wooley, Trevor D. *see* **Tsui, William Y., 2000a:11043**

Items with secondary classifications in 11D45

Han, Qing² Numbers of solutions of congruences and rationality of generating functions. (English summary) **2000f:11036**
Karatsuba, A. A. An estimate for the L_1-norm of an exponential sum. (Russian) **2000a:11113**

11D57 Multiplicative and norm form equations

Gaál, István (*with* Győry, Kálmán) Index form equations in quintic fields. (English summary) **2000e:11035**
— (*with* Lettl, Günter) A parametric family of quintic Thue equations. (English summary) **2000i:11051**
Győry, Kálmán (*with* Ru, Min) Integer solutions of a sequence of decomposable form inequalities. **2000a:11044**
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Pethő, Attila *see* **Halter-Koch, F. et al., 2000i:11052**
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11D59 Thue-Mahler equations

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11D61 Exponential equations

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Arif, S. Akhtar *see* **Muriefah, Fadwa S. Abu, 2000a:11046**
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Cao, Zhen Fu (*with* Dong, Xiao Lei) On Terai's conjecture. (English summary) **2000c:11050**
— A note on the Diophantine equation $a^x+b^y=c^z$. **2000m:11029**
— On the Diophantine equation $x^p+2^{2m}=py^2$. (English summary) **2000m:11028**
Chen, Xi Geng (*with* Guo, Yong Dong; Le, Mao Hua) On the number of solutions of the generalized Ramanujan-Nagell equation $x^2+D=k^n$. (Chinese. English and Chinese summaries) **2000b:11030**
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Luca, Florian On the equation $\varphi(|x^m+y^m|)=|x^n+y^n|$. (English summary) **2000c:11053**
Mignotte, Maurice Une remarque sur l'équation de Catalan. (English and French summaries) [A remark on the Catalan equation] **2000m:11030**
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11D68 Rational numbers as sums of fractions

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11D72 Equations in many variables [see also 11P55]

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Liu, Xue Fei On the indefinite equation $\sum_{i=1}^{k}a_ix_i^{n_i}=y^m$. (Chinese. English and Chinese summaries)
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Győry, Kálmán (*with* Ru, Min) Integer solutions of a sequence of decomposable form inequalities. **2000a:11044**
Meir, I. D. Simultaneous diagonal p-adic equations. (English summary) **2000k:11052**
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Shevelev, V. S. Numerical identities associated with the partition of the series of natural numbers by the Morse sequence. (Russian. English and Russian summaries) **2000f:11014**
Stewart, C. L. Second thoughts on some topics from Diophantine approximation and analytic number theory. (English and French summaries) **2000a:11002**
Wooley, Trevor D. Forms in many variables. **2000k:11057**

11D75 Diophantine inequalities [see also 11J25]

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11D79 Congruences in many variables

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— The number of solutions of a general diagonal congruence. (Chinese. English and Chinese summaries) **2000k:11048**
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Shevelev, V. S. On the number of solutions of the congruence $\sum_{i=1}^{s} x_i \equiv r \pmod{k}$. (Russian. English and Russian summaries) **2000e:11034**

11D85 Representation problems [see also 11P55]

Deshouillers, Jean-Marc (*with* Hennecart, François; Landreau, Bernard) Do sums of 4 biquadrates have a positive density? **2000k:11051**
Hennecart, François *see* **Deshouillers, Jean-Marc et al., 2000k:11051**
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Items with secondary classifications in 11D85

Baldisserri, Natalia The group of primitive quasi-Pythagorean triples. (Italian. English summary) **2000g:11025**
Berndt, Bruce C. Fragments by Ramanujan on Lambert series. (English summary) **2000j:11058**
Berrizbeitia, Pedro (*with* Elliott, P. D. T. A.) On products of shifted primes. (English summary) **2000a:11122**
Bicknell-Johnson, Marjorie A note on a representation conjecture by Hoggatt. (*see* **2000a:11027**)
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Peter, Manfred Almost periodicity of the normalized representation numbers associated to positive definite ternary quadratic forms. (English summary) **2000m:11036**
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Yokota, Hisashi The largest integer expressible as a sum of reciprocal of integers. (English summary) **2000i:11146**

11D88 p-adic and power series fields

Brüdern, Jörg (*with* Godinho, Hemar) On Artin's conjecture. I. Systems of diagonal forms. **2000a:11050**
Godinho, Hemar New results on additive forms of even degree. (English summary) **2000e:11037**
— *see also* **Brüdern, Jörg, 2000a:11050**
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11D99 None of the above, but in this section

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Liu, Wei Hua *see* **Deng, Zi Li et al.**
Luca, Florian On the equation $\varphi(|x^m + y^m|) = |x^n + y^n|$. (English summary) **2000c:11053**
Perrine, Serge Trees of approximation constants. (English summary) **2000i:11122**
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11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

O'Meara, O. Timothy ★ Introduction to quadratic forms. **2000m:11032**

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(Hsia, John S.) *see* **Integral quadratic forms and lattices, 2000g:11004**
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Integral Quadratic Forms and Lattices ★ Integral quadratic forms and lattices. (English summary) **2000g:11004**
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11E04 Quadratic forms over general fields

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Hoffmann, Detlev W. (*with* Tignol, Jean-Pierre) On 14-dimensional quadratic forms in I^3, 8-dimensional forms in I^2, and the common value property. (English summary) **2000b:11034**
— (*with* Van Geel, Jan) Zeros and norm groups of quadratic forms over function fields in one variable over a local non-dyadic field. **2000c:11058**
— On a conjecture of Izhboldin on similarity of quadratic forms. (English summary) **2000g:11023**
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Karpenko, Nikita A. *see* **Izhboldin, Oleg T., 2000b:11035**
Knebusch, Manfred Generic splitting of quadratic forms in the presence of bad reduction. **2000j:11048**
Laghribi, Ahmed Sur les formes quadratiques de hauteur 3 et de degré au plus 2. (English and French summaries) [On quadratic forms of height 3 and degree at most 2] **2000d:11048**
— Formes quadratiques de dimension 6. (English summary) [Quadratic forms of dimension 6] **2000e:11038**
Leep, David B. (*with* Schueller, Laura Mann) Classification of pairs of symmetric and alternating bilinear forms. (English summary) **2000m:11033**
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Baeza, Ricardo *see* **Aravire, Roberto, 2000c:11062**
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Jacob, William B. The Weil-Châtelet group, valuations, and the Witt ring. (English summary) **2000f:11042**
Kahn, Bruno (*with* Rost, Markus; Sujatha, R.) Unramified cohomology of quadrics. I. (English summary) **2000b:11041**
Laghribi, Ahmed Sur le problème de descente des formes quadratiques. (English summary) [On the descent problem for quadratic forms] **2000c:11063**
Mallat, Stéphane Applied mathematics meets signal processing. (Chinese. English and Chinese summaries)
Ojanguren, Manuel (*with* Panin, Ivan) A purity theorem for the Witt group. (English and French summaries) **2000a:11057**
Panin, Ivan *see* **Ojanguren, Manuel, 2000a:11057**
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Zhuravlëv, V. G. Embedding of p-elementary lattices. (Russian. Russian summary) **2000h:11036**

11E08 Quadratic forms over local rings and fields

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Items with secondary classifications in 11E08

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Fainsilber, Laura (*with* Morales, Jorge F.) An injectivity result for Hermitian forms over local orders. (English summary) **2000g:11026**
Hoffmann, Detlev W. (*with* Van Geel, Jan) Zeros and norm groups of quadratic forms over function fields in one variable over a local non-dyadic field. **2000c:11058**
Hsia, John S. (*with* Icaza, M. I.) Effective version of Tartakowsky's theorem. **2000h:11031**
Icaza, M. I. *see* **Hsia, John S., 2000h:11031**
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Ojanguren, Manuel (*with* Parimala, R.; Sridharan, Ramaiyengar; Suresh, V.) Witt groups of the punctured spectrum of a 3-dimensional regular local ring and a purity theorem. **2000f:19004**
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11E10 Forms over real fields

Chernousov, Vladimir An alternative proof of Scheiderer's theorem on the Hasse principle for principal homogeneous spaces. (English summary) **2000e:11040**
Hoffmann, Detlev W. Pythagoras numbers of fields. (English summary) **2000d:11050**

Items with secondary classifications in 11E10

Bayer-Fluckiger, Eva (*with* Monsurro, M.) Doubling trace forms. **2000h:11034**
Böcherer, Siegfried (*with* Funke, Jens; Schulze-Pillot, Rainer) Trace operator and theta series. **2000g:11027**
Ferrier, Christophe Hilbert's 17th problem and best dual bounds in quadratic minimization. (English and Ukrainian summaries) **2000k:12001**
Funke, Jens *see* **Böcherer, Siegfried et al., 2000g:11027**
van Hamel, Joost Divisors on real algebraic varieties without real points. (English summary) **2000f:14009**
Monsurro, M. *see* **Bayer-Fluckiger, Eva, 2000h:11034**
Schulze-Pillot, Rainer *see* **Böcherer, Siegfried et al., 2000g:11027**

11E12 Quadratic forms over global rings and fields

Bayer-Fluckiger, Eva Lattices and number fields. **2000j:11049**
Earnest, A. G. Universal and regular positive quadratic lattices over totally real number fields. **2000i:11057**
Han, Shian On the integral extension of lattices. (English summary) **2000b:11036**
Hsia, John S. (*with* Icaza, M. I.) Effective version of Tartakowsky's theorem. **2000h:11031**
Icaza, M. I. *see* **Hsia, John S., 2000h:11031**
Jöchner, M. On the representation theory of positive definite quadratic forms. (English summary) **2000m:11035**
Kim, Byeong Moon Finiteness of real quadratic fields which admit positive integral diagonal septanary universal forms. (English summary) **2000h:11032**
Krüskemper, Martin Algebraic construction of bilinear forms over **Z**. (English summary) **2000k:11054**
Oh, Byeong-Kweon Universal Z-lattices of minimal rank. (English summary) **2000e:11041**
Szymiczek, Kazimierz p-ranks of class groups of Witt equivalent number fields. (English summary) **2000f:11037**
Watanabe, Takao Upper bounds of Hermite constants for orthogonal groups. **2000i:11058**
Zhu, Fu Zu On non-decomposable Hermitian forms over Gaussian domain. (English summary) **2000g:11024**

Items with secondary classifications in 11E12

Chan, Wai Kiu Quaternary even positive definite quadratic forms of discriminant $4p$. (English summary) **2000d:11051**
Hashimoto, Ki-ichiro Linear relations of theta series attached to Eichler orders of quaternion algebras. (English summary) **2000m:11037**
James, Donald G. Bianchi groups and integral quadratic forms. **2000i:11060**
Nikulin, Vyacheslav V. $K3$ surfaces with interesting groups of automorphisms. (English summary) **2000f:14054**
Perlis, Robert Arf equivalence. I. (English summary) **2000d:11049**
Shimura, Goro An exact mass formula for orthogonal groups. **2000a:11073**
Szymiczek, Kazimierz On the Milnor exact sequence for rational quadratic forms. (English summary) **2000e:11046**

11E16 General binary quadratic forms

Baldisserri, Natalia The group of primitive quasi-Pythagorean triples. (Italian. English summary) **2000g:11025**
Hashimoto, Ryūta Explicit representations of classes of some binary quadratic forms of discriminants $4q^2+1$. **2000b:11037**

Items with secondary classifications in 11E16

Fomenko, O. M. Representation of integers belonging to subsequences of the positive integers by binary quadratic forms. (Russian. Russian summary) **2000d:11053**
Golubeva, E. P. On exceptional numbers for binary quadratic forms. (Russian. Russian summary) **2000c:11060**
Hoffmann, Detlev W. (*with* Tignol, Jean-Pierre) On 14-dimensional quadratic forms in I^3, 8-dimensional forms in I^2, and the common value property. (English summary) **2000b:11034**
Tignol, Jean-Pierre *see* **Hoffmann, Detlev W., 2000b:11034**

11E20 General ternary and quaternary quadratic forms; forms of more than two variables

Chan, Wai Kiu Quaternary even positive definite quadratic forms of discriminant $4p$. (English summary) **2000d:11051**
Kühnlein, Stefan Multiplicities of non-arithmetic ternary quadratic forms and elliptic curves of positive rank. (English summary) **2000a:11051**
Peter, Manfred Almost periodicity of the normalized representation numbers associated to positive definite ternary quadratic forms. (English summary) **2000m:11036**

Items with secondary classifications in 11E20

Dumir, V. C. (*with* Hans-Gill, R. J.) The second minimum for positive values of non-homogeneous ternary quadratic forms of type $(1, 2)$. **2000h:11070**
Earnest, A. G. Universal and regular positive quadratic lattices over totally real number fields. **2000i:11057**
Hans-Gill, R. J. *see* **Dumir, V. C., 2000h:11070**
Hashimoto, Ki-ichiro Linear relations of theta series attached to Eichler orders of quaternion algebras. (English summary) **2000m:11037**
Lomadze, G. On the number of representations of integers by quadratic forms in twelve variables. (English summary) **2000a:11052**
Raka, Madhu (*with* Rani, Urmila) The second minimum of inhomogeneous quaternary quadratic form of type $(3, 1)$ or $(1, 3)$. (English summary) **2000g:11064**
Rani, Urmila *see* **Raka, Madhu, 2000g:11064**

11E25 Sums of squares and representations by other particular quadratic forms

Calvillo Vives, Gilberto (*with* Gitler, Isidoro; Martínez-Bernal, José) Intercalate matrices: II. A characterization of Hurwitz-Radon formulas and an infinite family of forbidden matrices. (English summary) **2000c:11059**
Dicks, Warren (*with* Porti, Joan) Expressing a number as the sum of two coprime squares. (English summary) **2000b:11038**
Gitler, Isidoro *see* **Calvillo Vives, Gilberto et al., 2000c:11059**
Hirschhorn, Michael D. Jacobi's two-square theorem and related identities. (English summary) **2000d:11052**
— Three classical results on representations of a number. **2000e:11042**
Lomadze, G. On the number of representations of integers by quadratic forms in twelve variables. (English summary) **2000a:11052**
Martínez-Bernal, José *see* **Calvillo Vives, Gilberto et al., 2000c:11059**
Ono, Ken (*with* Soundararajan, K.) Integers represented by ternary quadratic forms. (English summary) **2000e:11043**
Porti, Joan *see* **Dicks, Warren, 2000b:11038**
Soundararajan, K. *see* **Ono, Ken, 2000e:11043**

Items with secondary classifications in 11E25

Bochnak, Jacek (*with* Coste, Michel; Roy, Marie-Françoise) ★ Real algebraic geometry. **2000a:14067**
Brent, Barry Quadratic minima and modular forms. (English summary) **2000f:11048**
Coste, Michel *see* **Bochnak, Jacek et al., 2000a:14067**
Earnest, A. G. Universal and regular positive quadratic lattices over totally real number fields. **2000i:11057**
Gan, Wee Teck *see* **Gross, Benedict H., 2000j:11050**
Gross, Benedict H. (*with* Gan, Wee Teck) Commutative subrings of certain non-associative rings. **2000j:11050**
Hafner, James Lee (*with* Walling, Lynne) Indefinite quadratic forms and Eisenstein series. (English summary) **2000j:11059**
Hoffmann, Detlev W. Pythagoras numbers of fields. (English summary) **2000d:11050**
Hsia, John S. (*with* Icaza, M. I.) Effective version of Tartakowsky's theorem. **2000h:11031**
Icaza, M. I. *see* **Hsia, John S., 2000h:11031**
Jöchner, M. On the representation theory of positive definite quadratic forms. (English summary) **2000m:11035**
Oh, Byeong-Kweon Universal Z-lattices of minimal rank. (English summary) **2000e:11041**
Roy, Marie-Françoise *see* **Bochnak, Jacek et al., 2000a:14067**
Scheiderer, Claus Sums of squares of regular functions on real algebraic varieties. (English summary) **2000j:14090**
Walling, Lynne *see* **Hafner, James Lee, 2000j:11059**

11E39 Bilinear and Hermitian forms

Calame, Philippe (*with* Mischler, Maurice) F-lattices and genus of Hermitian forms. (English summary) **2000i:11059**
Craven, Thomas C. (*with* Smith, Tara L.) Hermitian forms over ordered $*$-fields. (English summary) **2000e:11044**
Fainsilber, Laura (*with* Morales, Jorge F.) An injectivity result for Hermitian forms over local orders. (English summary) **2000g:11026**
Kumada, Toshihiro Isometric embeddings of metric **Q**-vector spaces into $\mathbf{Q}^N$. (English summary) (*see* **2000a:00013**)
Mischler, Maurice *see* **Calame, Philippe, 2000i:11059**
Morales, Jorge F. *see* **Fainsilber, Laura, 2000g:11026**
Naruki, Isao (*with* Tsuchida, Naoshi) On the signature for finite quadratic forms. (English summary) **2000f:11038**
Smith, Tara L. *see* **Craven, Thomas C., 2000e:11044**
Tsuchida, Naoshi *see* **Naruki, Isao, 2000f:11038**
Zhu, Fu Zu Indecomposable Hermitian forms over Gaussian domains. (Chinese. English and Chinese summaries) **2000b:11039**

Items with secondary classifications in 11E39

Fresnel, Jean ★ Espaces quadratiques, euclidiens, hermitiens. (French. French summary) [Quadratic, Euclidean, Hermitian spaces] **2000j:11053**
Hironaka, Yumiko Local densities of Hermitian forms. (English summary) **2000k:11058**
— Spherical functions and local densities on Hermitian forms. (English summary) **2000c:11064**
Knus, Max-Albert (*with* Merkur'ev, A. S.; Rost, Markus; Tignol, Jean-Pierre) ★ The book of involutions. (English summary) **2000a:16031**
Krüskemper, Martin Algebraic construction of bilinear forms over **Z**. (English summary) **2000k:11054**
Leep, David B. (*with* Schueller, Laura Mann) Classification of pairs of symmetric and alternating bilinear forms. (English summary) **2000m:11033**
Lewis, D. W. (*with* Tignol, Jean-Pierre) Classification theorems for central simple algebras with involution. (English summary) **2000m:16027**
Merkur'ev, A. S. *see* **Knus, Max-Albert et al., 2000a:16031**
(Parimala, R.) *see* **Lewis, D. W., 2000m:16027**
Rost, Markus *see* **Knus, Max-Albert et al., 2000a:16031**
Schueller, Laura Mann *see* **Leep, David B., 2000m:11033**
Tignol, Jean-Pierre *see* **Knus, Max-Albert et al., 2000a:16031** *and* **Lewis, D. W., 2000m:16027**
(Tits, Jacques) *see* **Knus, Max-Albert et al., 2000a:16031**
Zhu, Fu Zu On non-decomposable Hermitian forms over Gaussian domain. (English summary) **2000g:11024**

11E41 Class numbers of quadratic and Hermitian forms

McKee, J. F. The average number of divisors of an irreducible quadratic polynomial. **2000a:11053**

Items with secondary classifications in 11E41

Chan, Wai Kiu Quaternary even positive definite quadratic forms of discriminant $4p$. (English summary) **2000d:11051**
Golubeva, E. P. On quadratic irrationalities with short periods of continued fraction expansion. (Russian. Russian summary) **2000d:11095**
Han, Shian On the integral extension of lattices. (English summary) **2000b:11036**

11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

Bayadilov, E. E. On the divisor problem for values of a ternary cubic form. (Russian) **2000h:11033**
Böcherer, Siegfried (*with* Funke, Jens; Schulze-Pillot, Rainer) Trace operator and theta series. **2000g:11027**
Fomenko, O. M. Representation of integers belonging to subsequences of the positive integers by binary quadratic forms. (Russian. Russian summary) **2000d:11053**
Fujii, Akio On the zeros of the Epstein zeta functions. II. **2000a:11054**
Funke, Jens *see* **Böcherer, Siegfried et al., 2000g:11027**
Golubeva, E. P. On exceptional numbers for binary quadratic forms. (Russian. Russian summary) **2000c:11060**
Hashimoto, Ki-ichiro Linear relations of theta series attached to Eichler orders of quaternion algebras. (English summary) **2000m:11037**
Hironaka, Yumiko *see* **Sato, Fumihiro, (2000k:11004)**
Katsurada, Hidenori Squared Möbius function for half-integral matrices. **2000k:11055**
Sato, Fumihiro (*with* Hironaka, Yumiko) A clear formula for the local density of quadratic forms. (Japanese) (*see* **2000k:11004**)
Schulze-Pillot, Rainer *see* **Böcherer, Siegfried et al., 2000g:11027**

Items with secondary classifications in 11E45

Crandall, Richard E. New representations for the Madelung constant. (English summary) **2000m:11125**
Fujii, Akio Explicit formulas and oscillations. **2000j:11130**
Golubeva, E. P. Distribution of norms of primitive hyperbolic classes. (Russian. Russian summary) **2000f:11121**
Hafner, James Lee (*with* Walling, Lynne) Indefinite quadratic forms and Eisenstein series. (English summary) **2000j:11059**
Hosokawa, Hiroshi[1] Igusa local zeta function of the quadratic form $x_1^2 + \cdots + x_n^2$. (English summary) **2000d:11148**
Kim, Chang Heon (*with* Koo, Ja Kyung) On the modular function j_4 of level 4. (English summary) **2000e:11048**
Kogiso, Takeyoshi Simple calculation of the adelic zeta function associated with the space of binary cubic forms over a function field. (English summary) **2000a:11056**
Koo, Ja Kyung *see* **Kim, Chang Heon, 2000e:11048**
Ono, Ken (*with* Soundararajan, K.) Integers represented by ternary quadratic forms. (English summary) **2000e:11043**
van der Poorten, Alfred J. (*with* Williams, Kenneth S.) Values of the Dedekind eta function at quadratic irrationalities. (English summary) **2000h:11042**
Richter, Olav K. Theta functions of indefinite quadratic forms over real number fields. (English summary) **2000i:11066**
Sato, Fumihiro b-functions of prehomogeneous vector spaces attached to flag manifolds of the general linear group. **2000i:11061**
Soundararajan, K. *see* **Ono, Ken, 2000e:11043**
Walling, Lynne *see* **Hafner, James Lee, 2000j:11059**
Williams, Kenneth S. *see* **van der Poorten, Alfred J., 2000h:11042**

11E57 Classical groups [see also 14Lxx, 20Gxx]

James, Donald G. Bianchi groups and integral quadratic forms. **2000i:11060**
Morishita, Masanori (*with* Watanabe, Takao) S-Hardy-Littlewood homogeneous spaces and its application. (Japanese) **2000k:11056**
Ratcliffe, John G. (*with* Tschantz, Steven T.) On the torsion of the group $O(n, 1; \mathbf{Z})$ of integral Lorentzian $(n+1) \times (n+1)$ matrices. (English summary) **2000f:11039**
Tschantz, Steven T. *see* **Ratcliffe, John G., 2000f:11039**
Watanabe, Takao *see* **Morishita, Masanori, 2000k:11056**

Items with secondary classifications in 11E57

Grunewald, Fritz (*with* Schwermer, Joachim) On the concept of level for subgroups of SL_2 over arithmetic rings. (English summary) **2000j:20093**
Ishibashi, Hiroyuki Groups generated by symplectic transvections over local rings. (English summary) **2000h:20056**
Kitaoka, Yoshiyuki Finite arithmetic subgroups of GL_n. VI. **2000j:20091**
Knus, Max-Albert (*with* Merkur'ev, A. S.; Rost, Markus; Tignol, Jean-Pierre) ★ The book of involutions. (English summary) **2000a:16031**
Martin, Roland On generalized Igusa local zeta functions associated to simple Chevalley K-groups under the adjoint representation. (English summary) **2000a:11171**
Merkur'ev, A. S. *see* **Knus, Max-Albert et al., 2000a:16031**
Parimala, R. Galois cohomology of classical groups. **2000d:11054**
Rost, Markus *see* **Knus, Max-Albert et al., 2000a:16031**
Schwermer, Joachim *see* **Grunewald, Fritz, 2000j:20093**
Tignol, Jean-Pierre *see* **Knus, Max-Albert et al., 2000a:16031**
(Tits, Jacques) *see* **Knus, Max-Albert et al., 2000a:16031**
Wada, Hideo "Hasse principle" for $SL_n(D)$. **2000g:20095**

11E70 K-theory of quadratic and Hermitian forms

Items with secondary classifications in 11E70

Fainsilber, Laura (*with* Morales, Jorge F.) An injectivity result for Hermitian forms over local orders. (English summary) **2000g:11026**
Kobal, Damjan K-theory, Hermitian K-theory and the Karoubi tower. (English summary) **2000g:19002**
— The Karoubi tower and K-theory invariants of Hermitian forms. (English summary) **2000g:19003**
Morales, Jorge F. *see* **Fainsilber, Laura, 2000g:11026**

11E72 Galois cohomology of linear algebraic groups [see also 20G10]

Bayer-Fluckiger, Eva (*with* Monsurro, M.) Doubling trace forms. **2000h:11034**
Monsurro, M. *see* **Bayer-Fluckiger, Eva, 2000h:11034**
Morales, Jorge F. L'invariant de Hasse-Witt de la forme de Killing. (French summary) [The Hasse-Witt invariant of the Killing form] **2000a:11055**
Parimala, R. Galois cohomology of classical groups. **2000d:11054**

Items with secondary classifications in 11E72

Knus, Max-Albert (*with* Merkur'ev, A. S.; Rost, Markus; Tignol, Jean-Pierre) ★ The book of involutions. (English summary) **2000a:16031**
Merkur'ev, A. S. *see* **Knus, Max-Albert et al., 2000a:16031**
Rost, Markus *see* **Knus, Max-Albert et al., 2000a:16031**
Tignol, Jean-Pierre *see* **Knus, Max-Albert et al., 2000a:16031**
(Tits, Jacques) *see* **Knus, Max-Albert et al., 2000a:16031**

11E76 Forms of degree higher than two

Cremona, J. E. Reduction of binary cubic and quartic forms. (English summary) **2000f:11040**
Gan, Wee Teck *see* **Gross, Benedict H., 2000j:11050**
Gross, Benedict H. (*with* Gan, Wee Teck) Commutative subrings of certain non-associative rings. **2000j:11050**
Kogiso, Takeyoshi Simple calculation of the adelic zeta function associated with the space of binary cubic forms over a function field. (English summary) **2000a:11056**
Ling, Sheng Zhi A remark on the positive definite problem of a binary quartic form. (English summary) **2000d:11055**
Sato, Fumihiro b-functions of prehomogeneous vector spaces attached to flag manifolds of the general linear group. **2000i:11061**
VanderKam, Jeffrey M. Values at integers of homogeneous polynomials. (English summary) **2000i:11062a**
— Pair correlation of four-dimensional flat tori. (English summary) **2000i:11062b**
Wesołowski, Adam Automorphism and similarity groups of forms determined by the characteristic polynomial. (English summary) **2000c:11061**
Wooley, Trevor D. Forms in many variables. **2000k:11057**

Items with secondary classifications in 11E76

Bayadilov, E. E. On the divisor problem for values of a ternary cubic form. (Russian) **2000h:11033**
Wooley, Trevor D. On Weyl's inequality, Hua's lemma, and exponential sums over binary forms. **2000k:11047**

11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

Aravire, Roberto (*with* Baeza, Ricardo) A note on generic splitting of quadratic forms. (English summary) **2000c:11062**
Baeza, Ricardo *see* **Aravire, Roberto, 2000c:11062**
Craven, Thomas C. (*with* Smith, Tara L.) Formally real fields from a Galois-theoretic perspective. (English summary) **2000j:11051**
Dias, Ires (*with* Micali, Artibano) Anneaux de Witt de LG-anneaux. (English summary) [Witt rings of LG-rings] **2000e:11045**
Dickmann, M. A. (*with* Miraglia, Francisco) Special groups Boolean-theoretic methods in the theory of quadratic forms. (English summary) **2000j:11052**

Fitzgerald, Robert W. Small extensions of Witt rings. (English summary) **2000b:11040**
Izhboldin, Oleg T. (*with* Karpenko, Nikita A.) Generic splitting fields of central simple algebras: Galois cohomology and nonexcellence. (English summary) **2000f:11041**
— (*with* Karpenko, Nikita A.) Isotropy of virtual Albert forms over function fields of quadrics. (English summary) **2000h:11035**
Jacob, William B. The Weil-Châtelet group, valuations, and the Witt ring. (English summary) **2000f:11042**
Kahn, Bruno (*with* Rost, Markus; Sujatha, R.) Unramified cohomology of quadrics. I. (English summary) **2000b:11041**
Karpenko, Nikita A. *see* **Izhboldin, Oleg T., 2000f:11041** *and* **2000h:11035**
Laghribi, Ahmed Sur le problème de descente des formes quadratiques. (English summary) [On the descent problem for quadratic forms] **2000c:11063**
Micali, Artibano *see* **Dias, Ires, 2000e:11045**
Miraglia, Francisco *see* **Dickmann, M. A., 2000j:11052**
Morel, Fabien Suite spectrale d'Adams et invariants cohomologiques des formes quadratiques. (English and French summaries) [Adams spectral sequence and cohomological invariants of quadratic forms] **2000d:11056**
Ojanguren, Manuel (*with* Panin, Ivan) A purity theorem for the Witt group. (English and French summaries) **2000a:11057**
Panin, Ivan *see* **Ojanguren, Manuel, 2000a:11057**
(Petrovich, Alejandro) *see* **Dickmann, M. A., 2000j:11052**
Rost, Markus A descent property for Pfister forms. (English summary) **2000f:11043**
— *see also* **Kahn, Bruno et al., 2000b:11041**
Smith, Tara L. *see* **Craven, Thomas C., 2000j:11051**
Sujatha, R. *see* **Kahn, Bruno et al., 2000b:11041**
Szymiczek, Kazimierz On the Milnor exact sequence for rational quadratic forms. (English summary) **2000e:11046**

Items with secondary classifications in 11E81

Adem, Alejandro (*with* Karagueuzian, Dikran B.; Minac, Jan) Topological models and cohomology of Galois groups. (English and French summaries) **2000b:12008**
Balmer, Paul Derived Witt groups of a scheme. (English summary) **2000i:19015**
Barge, Jean (*with* Morel, Fabien) Cohomologie des groupes linéaires, K-théorie de Milnor et groupes de Witt. (English and French summaries) [Cohomology of linear groups, Milnor K-theory and Witt groups] **2000a:20102**
Craven, Thomas C. (*with* Smith, Tara L.) Hermitian forms over ordered $*$-fields. (English summary) **2000e:11044**
Hoffmann, Detlev W. (*with* Tignol, Jean-Pierre) On 14-dimensional quadratic forms in I^3, 8-dimensional forms in I^2, and the common value property. (English summary) **2000b:11034**
— On a conjecture of Izhboldin on similarity of quadratic forms. (English summary) **2000g:11023**
Izhboldin, Oleg T. (*with* Karpenko, Nikita A.) Isotropy of 8-dimensional quadratic forms over function fields of quadrics. (English summary) **2000b:11035**
Karagueuzian, Dikran B. *see* **Adem, Alejandro et al., 2000b:12008**
Karpenko, Nikita A. *see* **Izhboldin, Oleg T., 2000b:11035**
Knebusch, Manfred Generic splitting of quadratic forms in the presence of bad reduction. **2000j:11048**
Laghribi, Ahmed Sur les formes quadratiques de hauteur 3 et de degré au plus 2. (English and French summaries) [On quadratic forms of height 3 and degree at most 2] **2000d:11048**
— Formes quadratiques de dimension 6. (English summary) [Quadratic forms of dimension 6] **2000e:11038**
Minac, Jan *see* **Adem, Alejandro et al., 2000b:12008**
Morel, Fabien *see* **Barge, Jean, 2000a:20102**
Nori, Madhav V. The universal property of the Maslov index. **2000e:11039**
Ojanguren, Manuel (*with* Parimala, R.; Sridharan, Ramaiyengar; Suresh, V.) Witt groups of the punctured spectrum of a 3-dimensional regular local ring and a purity theorem. **2000f:19004**
Parimala, R. (*with* Suresh, V.) Isotropy of quadratic forms over function fields of p-adic curves. **2000m:11034**
— *see also* **Ojanguren, Manuel et al., 2000f:19004**
Perlis, Robert Arf equivalence. I. (English summary) **2000d:11049**
Pumplun, S. The Witt group of symmetric bilinear forms over a Brauer-Severi variety with values in a line bundle. (English summary) **2000i:19016**
Pumplün, S. The Witt ring of a Brauer-Severi variety. (English summary) **2000c:14018**
dos Santos, Clotilzio Moreira On multiquadratic extensions of n-Hilbert fields in characteristic 2. **2000k:11053**
Smith, Tara L. *see* **Craven, Thomas C., 2000e:11044**
Sridharan, Ramaiyengar *see* **Ojanguren, Manuel et al., 2000f:19004**
Suresh, V. *see* **Ojanguren, Manuel et al., 2000f:19004** *and* **Parimala, R., 2000m:11034**
Tignol, Jean-Pierre *see* **Hoffmann, Detlev W., 2000b:11034**
Yanchevskiĭ, Vyacheslav I. Anisotropic quadratic forms over special fields, and the Pfister conjecture on u-invariants. (Russian. English summary) **2000i:11056**

11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Fresnel, Jean ★ Espaces quadratiques, euclidiens, hermitiens. (French. French summary) [Quadratic, Euclidean, Hermitian spaces] **2000j:11053**

Items with secondary classifications in 11E88

Knus, Max-Albert (*with* Merkur'ev, A. S.; Rost, Markus; Tignol, Jean-Pierre) ★ The book of involutions. (English summary) **2000a:16031**
Merkur'ev, A. S. *see* **Knus, Max-Albert et al., 2000a:16031**
Rost, Markus *see* **Knus, Max-Albert et al., 2000a:16031**
Tignol, Jean-Pierre Quadratic pairs on biquaternion algebras. (English summary) **2000k:16022**
— *see also* **Knus, Max-Albert et al., 2000a:16031**
(Tits, Jacques) *see* **Knus, Max-Albert et al., 2000a:16031**

11E95 p-adic theory

Hironaka, Yumiko Local densities of Hermitian forms. (English summary) **2000k:11058**
— Spherical functions and local densities on Hermitian forms. (English summary) **2000c:11064**
Katsurada, Hidenori A power series associated with local densities of forms of higher degrees. (English summary) **2000b:11042**
Zhuravlëv, V. G. Embedding of p-elementary lattices. (Russian. Russian summary) **2000h:11036**

Items with secondary classifications in 11E95

Al'beverio, S. (*with* Karwowski, Witold; Zhao, Xue Lei) Asymptotics and spectral results for random walks on p-adics. (English summary) **2000i:60082**
Karwowski, Witold *see* **Al'beverio, S. et al., 2000i:60082**
Zhao, Xue Lei *see* **Al'beverio, S. et al., 2000i:60082**

11E99 None of the above, but in this section

Bartolone, Claudio G. (*with* Vaccaro, M. Alessandra) The action of the symplectic group associated with a quadratic extension of fields. (English summary) **2000g:11028**
Vaccaro, M. Alessandra *see* **Bartolone, Claudio G., 2000g:11028**

Items with secondary classifications in 11E99

Gross, Benedict H. On simply-connected groups over $\mathbf{Z}$, with $G(\mathbf{R})$ compact. (English summary) **2000k:20061**

11Fxx Discontinuous groups and automorphic forms {For relations with quadratic forms, see 11E45.}

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11F03 Modular and automorphic functions

Husnine, S. M. *see* **Kousar, Imrana et al., 2000k:11059**
Ito, Hideji Values of modular polynomials modulo primes. (English summary) **2000d:11057**
Kaneko, Masanobu Rademacher constant, Atkins' inner product and zeros of elliptic modular functions. (Japanese) (*see* **2000j:11002**)
Kim, Chang Heon (*with* Koo, Ja Kyung) On the modular function j_4 of level 4. (English summary) **2000e:11048**
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Cipu, Mihai Replicable functions: a computational approach. (English summary) **2000a:68163**
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Garvan, Frank Modular functions, Maple and Andrews' 10th problem. (English summary) **2000c:11169**
Gee, Alice (*with* Stevenhagen, Peter) Generating class fields using Shimura reciprocity. (English summary) **2000m:11112**
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Kaneko, Masanobu Traces of singular moduli and the Fourier coefficients of the elliptic modular function $j(\tau)$. (English summary) **2000e:11055**
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11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

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Lang, Mong Lung (*with* Tan, Ser-Peow) Normalizers of the congruence subgroups of the Hecke group G_5. (English summary) **2000b:11044**
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Tan, Ser-Peow *see* **Lang, Mong Lung, 2000b:11044** *and* **2000k:11060**
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Cangül, İsmail Naci *see* **Yılmaz, Nihal**
Dicks, Warren (*with* Porti, Joan) Expressing a number as the sum of two coprime squares. (English summary) **2000b:11038**
Dolan, Brian P. Duality and the modular group in the quantum Hall effect. (English summary) **2000c:81375**
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Huang, Shuechin Generalized Hecke groups and Hecke polygons. (English summary) **2000b:30064**
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Schmidt, Thomas A. (*with* Sheingorn, Mark) Covering the Hecke triangle surfaces. (English summary) **2000c:11110**
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Stephan, Jérôme On arithmetic hyperbolic links. (English summary) **2000e:57015**
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11F11 Modular forms, one variable

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Bekdemir, Mehmet *see* **Isik, Ahmet, 2000b:11045**
Duke, W. When is the product of two Hecke eigenforms an eigenform? **2000e:11049**
Elstrodt, Jürgen (*with* Grunewald, Fritz) The Petersson scalar product. **2000d:11058**
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Isik, Ahmet (*with* Bekdemir, Mehmet) The invariants $g_2(\tau)$ and $g_3(\tau)$ of modular forms. (English summary) **2000b:11045**
Lomadze, G. On some entire modular forms of an integral weight for the congruence subgroup $\Gamma_0(4N)$. (English summary) **2000f:11045**
Ono, Ken On the circular summation of the eleventh powers of Ramanujan's theta function. (English summary) **2000d:11059**
(Petersson, Hans) *see* **Elstrodt, Jürgen, 2000d:11058**
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Buzzard, Kevin (*with* Taylor, Richard L.) Companion forms and weight one forms. **2000j:11062**
Darmon, Henri A proof of the full Shimura-Taniyama-Weil conjecture is announced. **2000j:11082**
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Frey, Gerhard (*with* Müller, Michael) Arithmetic of modular curves and applications. (English summary) **2000a:11095**
Fukuhara, Shinji Generalized Dedekind symbols associated with the Eisenstein series. (English summary) **2000a:11061**
Garrett, Paul Euler factorization of global integrals. (English summary) **2000m:11043**
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Gramain, François Transcendance et fonctions modulaires. (English and French summaries) [Transcendence and modular functions] **2000i:11120**
Ito, Hideji Values of modular polynomials modulo primes. (English summary) **2000d:11057**
James, Kevin L. (*with* Ono, Ken) A note on the irreducibility of Hecke polynomials. **2000a:11063**
Kahl, Helmut (*with* Köhler, Günter[1]) Components of Hecke theta series. **2000e:11051**
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Kohnen, Winfried (*with* Sengupta, Jyoti) Nonvanishing of symmetric square L-functions of cusp forms inside the critical strip. (English summary) **2000j:11072**
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Marklof, Jens ★ Limit theorems for theta sums with applications in quantum mechanics. (German summary) **2000e:11103**
Melfi, Giuseppe On some modular identities. (English summary) **2000b:11006**
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Mori, Andrea (*with* Terracini, Lea) A canonical map between Hecke algebras. (Italian summary) **2000f:11049**
Müller, Michael *see* **Frey, Gerhard, 2000a:11095**
Murty, V. Kumar Modular forms and the Chebotarev density theorem. II. **2000g:11094**
Ono, Ken The partition function in arithmetic progressions. **2000j:11153**
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Zagier, Don A modular identity arising from mirror symmetry. (English summary) **2000a:11062**

11F12 Automorphic forms, one variable

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Hassen, Abdulkadir Log-polynomial period functions for nondiscrete Hecke groups. (English summary) **2000c:11065**
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Elstrodt, Jürgen (*with* Grunewald, Fritz) The Petersson scalar product. **2000d:11058**
Grunewald, Fritz *see* **Elstrodt, Jürgen, 2000d:11058**
(Petersson, Hans) *see* **Elstrodt, Jürgen, 2000d:11058**

11F20 Dedekind eta function, Dedekind sums

Basu, Ankur Alternate proof of Shô Iseki's functional equation. (English summary) **2000h:11039**
Berndt, Bruce C. (*with* Chan, Heng Huat) Notes on Ramanujan's singular moduli. (English summary) **2000a:11060**
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Fukuhara, Shinji Generalized Dedekind symbols associated with the Eisenstein series. (English summary) **2000a:11061**
Girstmair, Kurt Dedekind sums with predictable signs. **2000h:11040**
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— (*with* Zhang, Wen Peng) On the mean value formula of Dedekind sums. (English summary) **2000h:11041**
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Kim, Daeyeoul (*with* Park, Hwasin; Lee, Jungbae) The expression of J-invariant. (English summary)

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Zhang, Wen Peng On the fourth power mean of the Dedekind sums. (English and Chinese summaries) **2000j:11056**
— *see also* **He, Xia Li, 2000d:11060**;**2000h:11041** *and* **2000j:11055**

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Choi, Youn-Seo Tenth order mock theta functions in Ramanujan's lost notebook. **2000f:11016**
Dutta Gupta, Shamita (*with* She, Xiaotie) A note on the congruences of the Fourier coefficients of the modular invariant $j(z)$. **2000m:11038**
Lewis, Richard P. (*with* Liu, Zhi Guo) On two identities of Ramanujan. (English summary) **2000k:33037**
Liu, Zhi Guo *see* **Lewis, Richard P., 2000k:33037**
Némethi, András Dedekind sums and the signature of $f(x, y) + z^N$. II. **2000f:32039**
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Solomon, David The Shintani cocycle. II. Partial ζ-functions, cohomologous cocycles and p-adic interpolation. (English summary) **2000c:11186**

11F22 Relationship to Lie algebras and finite simple groups

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Bauer, Michel (*with* Coste, Antoine; Itzykson, C.; Ruelle, P.) Comments on the links between su(3) modular invariants, simple factors in the Jacobian of Fermat curves, and rational triangular billiards. (English summary) **2000b:11046**
Coste, Antoine *see* **Bauer, Michel et al., 2000b:11046**
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Kozlov, Dmitry N. On functions satisfying modular equations for infinitely many primes. (English summary) **2000h:11043**
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Gannon, T. (*with* Walton, M. A.) On fusion algebras and modular matrices. (English summary) **2000k:17030**
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Höhn, Gerald ★ Selbstduale Vertexoperatorsuperalgebren und das Babymonster. (German) [Self-dual vertex operator superalgebras and the Baby Monster] **2000d:17031**
Ino, Kazusumi Modular invariants in the fractional quantum Hall effect. (English summary) **2000h:81355**
Kondō, Shigeyuki On the Kodaira dimension of the moduli space of $K3$ surfaces. II. (English summary) **2000j:14055**
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Tsutsumi, Hiroyuki The Atkin inner product and the Atkin orthogonal polynomials for $\Gamma_0(N)$. (Japanese) (*see* **2000k:11004**)
Walton, M. A. *see* **Gannon, T., 2000i:81138** *and* **2000k:17030**

11F23 Relations with algebraic geometry and topology

Lawrence, Ruth (*with* Zagier, Don) Modular forms and quantum invariants of 3-manifolds. **2000j:11057**
Zagier, Don A modular identity arising from mirror symmetry. (English summary) **2000a:11062**
— *see also* **Lawrence, Ruth, 2000j:11057**

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Aoki, Hiroki Automorphic forms on the expanded symmetric domain of type IV. (English summary) **2000d:11066**
Baker, Andrew James Hecke operations and the Adams E_2-term based on elliptic cohomology. (English summary) **2000c:55008**
Beauville, Arnaud Counting rational curves on $K3$ surfaces. **2000c:14073**
Bryan, Jim (*with* Leung, Naichung Conan) Generating functions for the number of curves on abelian surfaces. **2000m:14052**
Göttsche, Lothar A conjectural generating function for numbers of curves on surfaces. (English summary) **2000f:14085**
— Theta functions and Hodge numbers of moduli spaces of sheaves on rational surfaces. (English summary) **2000k:14008**
Gritsenko, V. A. (*with* Hulek, Klaus) The modular form of the Barth-Nieto quintic. **2000k:14029**
Hosono, Shinobu (*with* Saito, Masa-Hiko; Stienstra, Jan) On the mirror symmetry conjecture for Schoen's Calabi-Yau 3-folds. (English summary) **2000h:14031**
Hulek, Klaus *see* **Gritsenko, V. A., 2000k:14029**
Jorgenson, Jay (*with* Todorov, Andreĭ Nikolov) An analytic discriminant for polarized algebraic $K3$ surfaces. **2000e:14054**
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Laures, Gerd The topological q-expansion principle. (English summary) **2000c:55009**
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Stienstra, Jan *see* **Hosono, Shinobu et al., 2000h:14031**
Todorov, Andreĭ Nikolov *see* **Jorgenson, Jay, 2000e:14054** *and* **2000k:14030**
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11F25 Hecke-Petersson operators, differential operators (one variable)

James, Kevin L. (*with* Ono, Ken) A note on the irreducibility of Hecke polynomials. **2000a:11063**
Kohnen, Winfried Period polynomials and congruences for Hecke algebras [eigenvalues]. (English summary) **2000c:11066**
Krieg, Aloys The Hecke algebras for the Fricke groups. (English summary) **2000h:11044**
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Baker, Andrew James Hecke operations and the Adams E_2-term based on elliptic cohomology. (English summary) **2000c:55008**
Conrey, J. B. (*with* Farmer, D. W.) Hecke operators and the nonvanishing of L-functions. (English summary) **2000f:11055**
Duke, W. When is the product of two Hecke eigenforms an eigenform? **2000e:11049**
Elstrodt, Jürgen (*with* Grunewald, Fritz) The Petersson scalar product. **2000d:11058**
Farmer, D. W. *see* **Conrey, J. B., 2000f:11055**
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— Eigenvalues of Ramanujan graphs. **2000h:11123**
Li, Xian-Jin On the trace of Hecke operators for Maass forms. (English summary) **2000b:11050**
Manickam, M. (*with* Ramakrishnan, B.) On Shimura, Shintani and Eichler-Zagier correspondences. (English summary) **2000j:11061**
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Unterberger, André Produit de séries d'Eisenstein et Laplacien modulaire. (English and French summaries) [Products of Eisenstein series and the modular Laplacian] **2000b:11058**
Vinogradov, A. I. The Petersson conjecture for the zeroth weight. I. (Russian. English and Russian summaries) **2000k:11067**

11F27 Theta series; Weil representation

Berndt, Bruce C. Fragments by Ramanujan on Lambert series. (English summary) **2000j:11058**
Hafner, James Lee (*with* Walling, Lynne) Indefinite quadratic forms and Eisenstein series. (English summary) **2000j:11059**
Hong, Kuk Jin (*with* Koo, Ja Kyung) Quotients of theta series as rational functions of $j_{1,4}$. (English summary) **2000b:11047**
Kahl, Helmut (*with* Köhler, Günter[1]) Components of Hecke theta series. **2000e:11051**
Kang, Soon-Yi Ramanujan's formulas for the explicit evaluation of the Rogers-Ramanujan continued fraction and theta-functions. **2000f:11047**
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Vsemirov, M. A. Macdonald identities and multidimensional theta functions. (Russian. English and Russian summaries) **2000c:11067**
Walling, Lynne *see* **Hafner, James Lee**, **2000j:11059**
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Harris, Michael Cohomological automorphic forms on unitary groups. I. Rationality of the theta correspondence. (English summary) **2000h:11050**
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Sebbar, Ahmed Lacunary series and theta functions. (*see* **2000k:00028**)
Shen, Li-Chien On the products of three theta functions. (English summary) **2000k:33038**
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Suzuki, Toshiaki The classical theta functions and distinguished representations of metaplectic groups [translation of Sūgaku **49** (1997), no. 1, 48–61; MR 2000c:11071]. (*see* **2000g:00094**)
Tan, Victor Poles of Siegel Eisenstein series on $U(n, n)$. (English summary) **2000e:11073**
— An application of the regularized Siegel-Weil formula on unitary groups to a theta lifting problem. (English summary) **2000a:11081**
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11F30 Fourier coefficients of automorphic forms

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Bruinier, Jan Hendrik Nonvanishing modulo l of Fourier coefficients of half-integral weight modular forms. **2000d:11061**
Dutta Gupta, Shamita (*with* She, Xiaotie) A note on the congruences of the Fourier coefficients of the modular invariant $j(z)$. **2000m:11038**
Ivić, Aleksandar (*with* Matsumoto, Kohji; Tanigawa, Yoshio) On Riesz means of the coefficients of the Rankin-Selberg series. (English summary) **2000c:11068**
Jutila, Matti Convolutions of Fourier coefficients of cusp forms. (English summary) **2000j:11060**
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Kojima, Hisashi Remark on Fourier coefficients of modular forms of half integral weight belonging to Kohnen's spaces. (English summary) **2000d:11062a**
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Borcherds, Richard Ewen The Gross-Kohnen-Zagier theorem in higher dimensions. **2000f:11052**
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Dou, Ze-Li On a theta correspondence with respect to a quadratic extension. (English summary) **2000j:11063**
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Golubeva, E. P. Geodesics on the upper half-plane and the distribution of quadratic irrationalities. (Russian. Russian summary) **2000i:11068**
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Guerzhoy, P. A p-adic property of Fourier coefficients of modular forms of half integral weight. **2000c:11072**
Hafner, James Lee (*with* Walling, Lynne) Indefinite quadratic forms and Eisenstein series. (English summary) **2000j:11059**
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Jutila, Matti Mean values of Dirichlet series via Laplace transforms. **2000e:11106**
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Vatsal, V. Canonical periods and congruence formulae. **2000g:11032**
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Wong, Siman On the rank of ideal class groups. (English summary) **2000k:11126**
— Automorphic forms on GL(2) and the rank of class groups. (English summary) **2000g:11042**
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Zagier, Don From quadratic functions to modular functions. (English summary) **2000i:11063**

11F32 Modular correspondences, etc.

Arakawa, Tsuneo Saito-Kurokawa lifting of odd number weights by the Duke-Imamoğlu method. (Japanese) (*see* **2000k:11004**)
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Mori, Andrea (*with* Terracini, Lea) A canonical map between Hecke algebras. (Italian summary) **2000f:11049**
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Suzuki, Toshiaki Classical theta-functions and distinguished representations of metaplectic groups. (Japanese) **2000c:11071**
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Breulmann, Stefan (*with* Kuss, Michael) On a conjecture of Duke-Imamoğlu. **2000j:11065**
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11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

Broumas, Antonios Congruences between the coefficients of the Tate curve via formal groups. (English summary) **2000e:11056**
Buzzard, Kevin (*with* Taylor, Richard L.) Companion forms and weight one forms. **2000j:11062**
Coleman, Robert F. (*with* Mazur, Barry C.) The eigencurve. **2000m:11039**
Doi, Koji (*with* Hida, Haruzo; Ishii, Hidenori) Discriminant of Hecke fields and twisted adjoint L-values for GL(2). **2000a:11064**
Dummigan, Neil Theta series congruences. **2000k:11061**
Emerton, Matthew A new proof of a theorem of Hida. **2000d:11063**
— The Eisenstein ideal in Hida's ordinary Hecke algebra. **2000e:11057**
Guerzhoy, P. A p-adic property of Fourier coefficients of modular forms of half integral weight. **2000c:11072**
— Quadratic congruences for Cohen-Eisenstein series. **2000a:11065**
Hida, Haruzo Global quadratic units and Hecke algebras. (English summary) **2000b:11048**
— *see also* **Doi, Koji et al., 2000a:11064**
Ishii, Hidenori *see* **Doi, Koji et al., 2000a:11064**
Jarvis, Frazer Level lowering for modular mod l representations over totally real fields. **2000b:11049**
Mazur, Barry C. *see* **Coleman, Robert F., 2000m:11039**
Murty, Maruti Ram Congruences between modular forms. **2000c:11073**
Nagaoka, S. A remark on Serre's example of p-adic Eisenstein series. **2000g:11031**
Nyssen, Louise Représentations extraordinaires. (French summary) [Extraordinary representations] **2000e:11058**
Ohta, Masami Ordinary p-adic étale cohomology groups attached to towers of elliptic modular curves. (English summary) **2000d:11064**
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Vatsal, V. Canonical periods and congruence formulae. **2000g:11032**

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Breuil, Christophe Une remarque sur les représentations locales p-adiques et les congruences entre formes modulaires de Hilbert. (English and French summaries) [A remark on local p-adic Galois representations and congruences between Hilbert modular forms] **2000h:11054**
Bruinier, Jan Hendrik Nonvanishing modulo l of Fourier coefficients of half-integral weight modular forms. **2000d:11061**
Byeon, Dongho A note on basic Iwasawa λ-invariants of imaginary quadratic fields and congruence of modular forms. **2000f:11143**
Darmon, Henri Modularity of fibres in rigid local systems. **2000g:11044**
— *see also* **Bertolini, Massimo, 2000f:11075**
Doud, Darrin S_4 and $\widetilde{S}_4$ extensions of $\mathbf{Q}$ ramified at only one prime. (English summary) **2000b:11060**
Figueiredo, Luiz M. S. Cusp forms of weight 2 over an imaginary quadratic field as homology classes. **2000a:11082**
Gekeler, Ernst-Ulrich Growth order and congruences of coefficients of the Drinfeld discriminant function. (English summary) **2000e:11061**
Jiménez-Urroz, Jorge Congruences for the partition function in certain arithmetic progressions. (English summary) **2000m:11103**
Kohnen, Winfried (*with* Ono, Ken) Indivisibility of class numbers of imaginary quadratic fields and orders of Tate-Shafarevich groups of elliptic curves with complex multiplication. **2000c:11087**
— On the proportion of quadratic character twists of L-functions attached to cusp forms not vanishing at the central point. **2000e:11070**
Ono, Ken The partition function in arithmetic progressions. **2000j:11153**
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Perrin-Riou, Bernadette ★ p-adic L-functions and p-adic representations. (English summary) **2000k:11077**
(Schneps, Leila) *see* **Perrin-Riou, Bernadette, 2000k:11077**
Taguchi, Yuichiro Introduction to the Fontaine-Mazur conjecture. (Japanese) (*see* **2000k:11003**)
Ullmo, Emmanuel Hauteur de Faltings de quotients de $J_0(N)$, discriminants d'algèbres de Hecke et congruences entre formes modulaires. (English summary) [Faltings height of quotients of $J_0(N)$, Hecke algebra discriminants and congruences between modular forms] **2000k:11080**

11F37 Forms of half-integer weight; nonholomorphic modular forms

Bluher, Antonia W. Near holomorphy, arithmeticity, and the theta correspondence. (English summary) **2000h:11045**
Golubeva, E. P. Geodesics on the upper half-plane and the distribution of quadratic irrationalities. (Russian. Russian summary) **2000i:11068**
Li, Xian-Jin On the trace of Hecke operators for Maass forms. (English summary) **2000b:11050**
Lomadze, G. On some entire modular forms of half-integral weight for the congruence group $\Gamma_0(4N)$. (English and Georgian summaries) **2000d:11065**
Tsuyumine, Shigeaki On Shimura lifting of modular forms. **2000m:11040**

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Bruinier, Jan Hendrik Nonvanishing modulo l of Fourier coefficients of half-integral weight modular forms. **2000d:11061**
Chinen, Koji On estimation of Kloosterman sums with the theta multiplier. (English summary) **2000a:11112**
Elstrodt, Jürgen (*with* Grunewald, Fritz) The Petersson scalar product. **2000d:11058**
Grunewald, Fritz *see* **Elstrodt, Jürgen, 2000d:11058**
Guerzhoy, P. A p-adic property of Fourier coefficients of modular forms of half integral weight. **2000c:11072**
— Quadratic congruences for Cohen-Eisenstein series. **2000a:11065**
Hafner, James Lee (*with* Walling, Lynne) Indefinite quadratic forms and Eisenstein series. (English summary) **2000j:11059**
Hoffstein, Jeffrey (*with* Lockhart, Paul) Omega results for automorphic L-functions. (English summary) **2000j:11071**
James, Kevin L. An example of an elliptic curve with a positive density of prime quadratic twists which have rank zero. (English summary) **2000i:11086**
— (*with* Ono, Ken) Selmer groups of quadratic twists of elliptic curves. **2000j:11095**
Joyner, David A correspondence for the supercuspidal representations of $\overline{\mathrm{SL}_2(F)}$, F p-adic. (English summary) **2000m:22021**
Kohnen, Winfried (*with* Ono, Ken) Indivisibility of class numbers of imaginary quadratic fields and orders of Tate-Shafarevich groups of elliptic curves with complex multiplication. **2000c:11087**
— On the proportion of quadratic character twists of L-functions attached to cusp forms not vanishing at the central point. **2000e:11070**
Kojima, Hisashi Remark on Fourier coefficients of modular forms of half integral weight belonging to Kohnen's spaces. (English summary) **2000d:11062a**
— Remark on Fourier coefficients of modular forms of half integral weight belonging to Kohnen's spaces. II. **2000d:11062b**
— On Fourier coefficients of Maass wave forms of half integral weight belonging to Kohnen's spaces. **2000i:11067**
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Lockhart, Paul *see* **Hoffstein, Jeffrey, 2000j:11071**
Manickam, M. (*with* Ramakrishnan, B.) On Shimura, Shintani and Eichler-Zagier correspondences. (English summary) **2000j:11061**
Matthes, Roland On some Poincaré-series on hyperbolic space. (English summary) **2000i:11072**
Ono, Ken *see* **Kohnen, Winfried, 2000c:11087** *and* **James, Kevin L., 2000j:11095**
(Petersson, Hans) *see* **Elstrodt, Jürgen, 2000d:11058**
Ramakrishnan, B. *see* **Manickam, M., 2000j:11061**
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Tokuno, Yasushi Jacobi forms of half-integral weight and Siegel modular forms of integral weight. **2000b:11052**
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— From pseudodifferential analysis to modular form theory. (English summary) **2000h:11038**
— Une série génératrice des formes paraboliques de Maass. (English and French summaries) [A generating series of sorts for Maass cusp forms] **2000k:11066**
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11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

Dou, Ze-Li On a theta correspondence with respect to a quadratic extension. (English summary) **2000j:11063**
Grundman, H. G. Explicit resolutions of cubic cusp singularities. (English summary) **2000i:11069**
Hamahata, Yoshinori The space of Hilbert cusp forms and the representation of $\mathrm{SL}_2(\mathbf{F}_q)$. **2000f:11050**
— Representations of finite groups and Hilbert modular forms for real quadratic fields. (*see* **2000k:22001**)
— Representations of finite groups and Hilbert modular forms. (Japanese) (*see* **2000k:11004**)

Tilouine, J. (*with* Urban, E.) Several-variable p-adic families of Siegel-Hilbert cusp eigensystems and their Galois representations. (English and French summaries) **2000j:11064**
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Breuil, Christophe Une remarque sur les représentations locales p-adiques et les congruences entre formes modulaires de Hilbert. (English and French summaries) [A remark on local p-adic Galois representations and congruences between Hilbert modular forms] **2000h:11054**
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Noskov, G. A. Multidimensional isoperimetric inequalities and the "non-combability" of the Hilbert modular group. (Russian. Russian summary) **2000i:20069**
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11F46 Siegel modular groups and their modular and automorphic forms

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Borisov, L. A. A finiteness theorem for subgroups of $\mathrm{Sp}(4, \mathbf{Z})$. (English summary) **2000k:11062**
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Horie, Taro A note on the Rankin-Selberg method for Siegel cusp forms of genus 2. **2000a:11067**
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Katsurada, Hidenori A short proof of the Kitaoka-Feit induction lemma for Siegel series. **2000c:11074**
— An explicit formula for Siegel series. (English summary) **2000a:11068**
Kogiso, Takeyoshi (*with* Tsushima, Koji) On an algebra of Siegel modular forms associated with the theta group $\Gamma_2(1, 2)$. (English summary) **2000a:11069**
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— (*with* Salvati Manni, Riccardo) A remark on the growth of Fourier coefficients of Siegel cusp forms. **2000e:11059**
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Kozima, Noritomo Special values of standard L functions associated with vector-valued Siegel modular forms. (Japanese) **2000f:11051**
Kuss, Michael *see* **Breulmann, Stefan, 2000j:11065**
Narita, Hiroaki Fourier expansion of holomorphic Siegel modular forms with respect to the minimal parabolic subgroup. **2000g:11034**
— Fourier expansion of holomorphic Siegel modular forms of genus 3 along the minimal parabolic subgroup. (*see* **2000k:22001**)
— Fourier expansion of holomorphic Siegel modular forms of genus 3 along the minimal parabolic subgroup. (English summary) (*see* **2000k:11004**)
Poor, Cris (*with* Yuen, David S.) Dimensions of spaces of Siegel cusp forms and theta series with pluri-harmonics. (English summary) **2000m:11041**
Salvati Manni, Riccardo *see* **Kohnen, Winfried, 2000e:11059**
Schulze-Pillot, Rainer Siegel modular forms having the same L-functions. (English summary) **2000c:11076**
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11F50 Jacobi forms

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11F52 Modular forms associated to Drinfel'd modules

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Gekeler, Ernst-Ulrich Growth order and congruences of coefficients of the Drinfeld discriminant function. (English summary) **2000e:11061**
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Nagoshi, Hirofumi Selberg zeta functions over function fields. (Japanese) (*see* **2000k:11004**)
Recher, François *see* **Ably, Mohammed et al., 2000c:11123**
Tipp, Ulrich Green's functions for Drinfeld modular curves. (English summary) **2000d:11073**

11F55 Other groups and their modular and automorphic forms (several variables)

Bannai, Eiichi (*with* Harada, Masaaki; Munemasa, Akihiro; Oura, Manabu) Type II codes over $\mathbf{F}_2 + u\mathbf{F}_2$ and an application to Hermitian modular forms. (Japanese) (*see* **2000m:05002**)
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11F60 Hecke-Petersson operators, differential operators (several variables)

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Ash, Avner Monomial Galois representations and Hecke eigenclasses in the mod-p cohomology of $GL((p-1), \mathbf{Z})$. **2000i:11082**
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11F66 Dirichlet series and functional equations in connection with modular forms

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Hassen, Abdulkadir Log-polynomial period functions for Hecke groups. (English summary) **2000h:11048**
Heim, Bernhard E. Pullbacks of Eisenstein series, Hecke-Jacobi theory and automorphic L-functions. (English summary) **2000f:11053**
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Kamiya, Yuichi A note on the non-vanishing problem for L-functions associated with cusp forms. **2000h:11049**
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11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols

Akbary, Amir Non-vanishing of weight k modular L-functions with large level. (English summary) **2000e:11067**
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Ghate, Eknath Critical values of twisted tensor L-functions over CM-fields. (English summary) **2000i:11073**
— Critical values of the twisted tensor L-function in the imaginary quadratic case. **2000a:11076**
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Harris, Michael Cohomological automorphic forms on unitary groups. I. Rationality of the theta correspondence. (English summary) **2000h:11050**
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— (*with* Sengupta, Jyoti) Nonvanishing of symmetric square L-functions of cusp forms inside the critical strip. (English summary) **2000j:11072**
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Kojima, Hisashi Remark on Fourier coefficients of modular forms of half integral weight belonging to Kohnen's spaces. (English summary) **2000d:11062a**
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11F70 Representation-theoretic methods; automorphic representations over local and global fields

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11F80 Galois representations

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Buzzard, Kevin (*with* Taylor, Richard L.) Companion forms and weight one forms. **2000j:11062**
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11F85 p-adic theory, local fields [see also 14G20, 22E50]

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Kato, Kazuya Euler systems, Iwasawa theory, and Selmer groups. **2000k:11076**
Khare, Chandrashekhar Corrigendum to: "Remarks on mod p forms of weight one" [Internat. Math. Res. Notices **1997**, no. 3, 127–133; MR 97m:11070]. **2000k:11118**
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11F99 None of the above, but in this section

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11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

11G05 Elliptic curves over global fields [see also 14H52]

Aoki, Noboru On the 2-Selmer groups of elliptic curves arising from the congruent number problem. **2000d:11070**
Baker, Matthew H. Kamienny's criterion and the method of Coleman and Chabauty. (English summary) **2000a:11084**
Bremner, Andrew On arithmetic progressions on elliptic curves. (English summary) **2000k:11068**
Chakraborty, Kalyan (*with* Kulkarni, Manisha V.) Solutions of cubic equations in quadratic fields. (English summary) **2000b:11062**
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11G07 Elliptic curves over local fields [see also 14G20, 14H52]

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11G09 Drinfel′d modules; higher-dimensional motives, etc. [see also 14L05]

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11G10 Abelian varieties of dimension > 1 [see also 14Kxx]

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Kamienny, S. (*with* Wetherell, J. L.) On étale covers of curves. (English summary) **2000c:11092**
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Masser, D. W. Multiplicative isogeny estimates. (English summary) **2000a:11089**
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Poonen, Bjorn (*with* Stoll, Michael) The Cassels-Tate pairing on polarized abelian varieties. (English summary) **2000m:11048**
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Shimura, Mahoro *see* **Momose, Fumiyuki, (2000k:11003)**
Shioda, Tetsuji Mordell-Weil lattices for higher genus fibration over a curve. **2000g:11053**
— (*with* Terasoma, Tomohide) Existence of simple Jacobian varieties of genus g with rank at least $4g + 5$. (English summary) **2000f:11071**
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Vojta, Paul Integral points on subvarieties of semiabelian varieties. II. (English summary) **2000d:11074**
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Bouscaren, Elisabeth Proof of the Mordell-Lang conjecture for function fields. **2000d:11155**
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Colmez, Pierre Intégration sur les variétés p-adiques. (English and French summaries) [Integration on p-adic varieties] **2000e:14026**
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Hashimoto, Ki-ichiro $\mathbf{Q}$-curves of degree 5 and Jacobian surfaces of GL_2-type. (English summary) **2000i:11101**
Hindry, Marc Introduction to abelian varieties and the Mordell-Lang conjecture. **2000e:14077**
Hrushovski, Ehud Proof of Manin's theorem by reduction to positive characteristic. **2000c:11202**
Jordan, Bruce W. (*with* Livné, Ron) On Atkin-Lehner quotients of Shimura curves. (English summary) **2000j:11090**
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11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

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Hunt, Bruce Hyperbolic D-planes. **2000a:11092**
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11G16 Elliptic and modular units [see also 11R27]

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11G18 Arithmetic aspects of modular and Shimura varieties [see also 14G35]

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11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [see also 14H25]

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11G35 Varieties over global fields [see also 14G25]

Beukers, Frits Integral points on cubic surfaces. (English summary) **2000b:11072**

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11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

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Bertolini, Massimo (*with* Darmon, Henri) p-adic periods, p-adic L-functions, and the p-adic uniformization of Shimura curves. **2000f:11075**

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Katz, Nicholas M. (*with* Sarnak, Peter) Zeroes of zeta functions and symmetry. (English summary) **2000f:11114**
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11G45 Geometric class field theory [see also 11R37, 14C35, 19F05]

Asakura, Masanori *see* **Matsumi, Kazuya et al., 2000k:11078**
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— (*with* Sato, Kanetomo; Asakura, Masanori) On the kernel of the reciprocity map of normal surfaces over finite fields. (English summary) **2000k:11078**
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(Schneps, Leila) *see* **Perrin-Riou, Bernadette, 2000k:11077**
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11G50 Heights [see also 14G40]

Batyrev, Victor V. (*with* Tschinkel, Yu.) Tamagawa numbers of polarized algebraic varieties. (English summary) **2000d:11090**
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— (*with* Ward, Thomas B.) ★ Heights of polynomials and entropy in algebraic dynamics. (English summary) **2000e:11087**
— On the elliptic analogue of Jensen's formula. (English summary) **2000h:11068**
Fouvry, Étienne Sur la hauteur des points d'une certaine surface cubique singulière. (French summary) [The height of the points of a certain singular cubic surface] **2000b:11075**
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Peyre, Emmanuel Terme principal de la fonction zêta des hauteurs et torseurs universels. (French summary) [Principal term of the zeta function of heights and universal torsors] **2000f:11081**
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Stoll, Michael On the height constant for curves of genus two. **2000h:11069**
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Ullmo, Emmanuel Hauteur de Faltings de quotients de $J_0(N)$, discriminants d'algèbres de Hecke et congruences entre formes modulaires. (English summary) [Faltings height of quotients of $J_0(N)$, Hecke algebra discriminants and congruences between modular forms] **2000k:11080**
— *see also* **Szpiro, Lucien, 2000a:11100**
Wang, Julie Tzu-Yueh Integral points of projective spaces omitting hyperplanes over function fields of positive characteristic. (English summary) **2000g:11061**
Ward, Thomas B. *see* **Everest, Graham, 2000c:11087** *and* **2000f:11079**

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Everest, Graham Explicit local heights. (English summary) **2000g:11050**
Gasbarri, Carlo On the number of points of bounded height on arithmetic projective spaces. (English summary) **2000f:14039**
Hahn, Sang-Geun *see* **Cheon, Jeong Hee, 2000i:11084**
Hindry, Marc (*with* Silverman, Joseph H.) Sur le nombre de points de torsion rationnels sur une courbe elliptique. (English and French summaries) [On the number of rational torsion points on an elliptic curve] **2000g:11047**
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Jahnel, Jörg A height function on the Picard group of singular Arakelov varieties. (English summary) **2000m:14029**
Kulesz, Leopoldo Application de la méthode de Dem′janenko-Manin à certaines familles de courbes de genre 2 et 3. (English and French summaries) [Applications of the Dem′yanenko-Manin method to certain families of curves of genus 2 and 3] **2000c:11102**
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Zapponi, Leonardo Dessins d'enfants en genre 1. [Dessins d'enfants in genus 1] **2000c:14032**

11G55 Polylogarithms and relations with K-theory

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— Geometry of the trilogarithm and the motivic Lie algebra of a field. (English summary) **2000j:11096**

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11G99 None of the above, but in this section

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11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

Adhikari, Sukumar Das On some questions related to integer lattice points on the plane. **2000i:11104**

Bacher, Roland (*with* de la Harpe, Pierre; Venkov, Boris B.) Séries de croissance et polynômes d'Ehrhart associés aux réseaux de racines. (English and French summaries) [Growth series and Ehrhart polynomials associated with root lattices] **2000f:11082**

Balog, Antal (*with* Deshouillers, Jean-Marc) On some convex lattice polytopes. **2000f:11083**

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Corteel, Sylvie (*with* Rémond, Gaël; Schaeffer, Gilles; Thomas, Hugh) The number of plane corner cuts. **2000h:52020**

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Griess, Robert L., Jr. Pieces of eight: semiselfdual lattices and a new foundation for the theory of Conway and Mathieu groups. **2000m:20020**

Havas, George (*with* Majewski, Bohdan S.; Matthews, Keith R.) Extended GCD and Hermite normal form algorithms via lattice basis reduction. (English summary) **2000k:11141a**

— (*with* Majewski, Bohdan S.; Matthews, Keith R.) Addenda and errata: "Extended GCD and Hermite normal form algorithms via lattice basis reduction". **2000k:11141b**

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Rémond, Gaël *see* **Corteel, Sylvie et al., 2000h:52020**

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11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

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(Bannai, Eiichi) *see* **Conway, John H., 2000b:11077**

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Conway, John H. (*with* Sloane, N. J. A.) ★ Sphere packings, lattices and groups. (English summary) **2000b:11077**

(Leech, John) *see* **Conway, John H., 2000b:11077**

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11H46 Products of linear forms

Items with secondary classifications in 11H46

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Bykovskiĭ, V. A. Vahlen's theorem for two-dimensional convergents of continued fractions. (Russian. Russian summary) **2000j:11098**

11H50 Minima of forms

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Koch, Helmut V. The 48-dimensional analogues of the Leech lattice. **2000k:11082**

Nebe, Gabriele Construction and investigation of lattices with matrix groups. **2000m:11054**

Raka, Madhu (*with* Rani, Urmila) The second minimum of inhomogeneous quaternary quadratic form of type $(3, 1)$ or $(1, 3)$. (English summary) **2000g:11064**

Rani, Urmila *see* **Raka, Madhu, 2000g:11064**

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Bambah, R. P. Packings and coverings. (English summary) **2000i:11106**

Cai, Jin-Yi A new transference theorem in the geometry of numbers. (English summary) **2000k:68067**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Barot, Michael A characterization of positive unit forms. (English summary) **2000c:11109**

Bergé, Anne-Marie Classification of positive forms having prescribed automorphisms. **2000i:11107**

Beukers, Frits Lattice reduction. **2000a:11103**

von Höhne, Hans-Joachim Reduction of weakly definite unit forms. **2000k:11083**

Martinet, Jacques Sur la classification des réseaux parfaits de dimension 5. (English and French summaries) [On the classification of 5-dimensional perfect lattices] **2000i:11108**

Seysen, M. A measure for the non-orthogonality of a lattice basis. (English summary) **2000g:11065**

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Cremona, J. E. Reduction of binary cubic and quartic forms. (English summary) **2000f:11040**

Gunnells, Paul E. Modular symbols for $\mathbf{Q}$-rank one groups and Voronoĭ reduction. (English summary) **2000c:11084**

Watanabe, Takao Upper bounds of Hermite constants for orthogonal groups. **2000i:11058**

11H56 Automorphism groups of lattices

Items with secondary classifications in 11H56

Bergé, Anne-Marie Classification of positive forms having prescribed automorphisms. **2000i:11107**

Borcherds, Richard Ewen Coxeter groups, Lorentzian lattices, and $K3$ surfaces. **2000a:20088**

Dummigan, Neil Theta series congruences. **2000k:11061**

Nebe, Gabriele Construction and investigation of lattices with matrix groups. **2000m:11054**

11H71 Relations with coding theory

Dougherty, Steven T. (*with* Harada, Masaaki; Solé, Patrick) Self-dual codes over rings and the Chinese remainder theorem. (English summary) **2000f:11085**

— (*with* Gulliver, T. Aaron; Harada, Masaaki) Type II self-dual codes over finite rings and even unimodular lattices. (English summary) **2000g:11066**

Gulliver, T. Aaron (*with* Harada, Masaaki) An optimal unimodular lattice in dimension 39. (English summary) **2000f:11086**

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Harada, Masaaki *see* **Dougherty, Steven T. et al., 2000f:11085**;**2000g:11066** *and* **Gulliver, T. Aaron, 2000f:11086**

Solé, Patrick *see* **Dougherty, Steven T. et al., 2000f:11085**

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Bannai, Eiichi (*with* Dougherty, Steven T.; Harada, Masaaki; Oura, Manabu) Type II codes, even unimodular lattices, and invariant rings. (English summary) **2000i:94091**

Blackmore, Tim (*with* Norton, Graham H.) On trellis structures for Reed-Muller codes. (English summary) **2000m:94046**

Blake, Ian F. *see* **Banihashemi, Amir H., 2000m:94030**

Bonnecaze, Alexis (*with* Gaborit, Philippe; Harada, Masaaki; Kitazume, Masaaki; Solé, Patrick) Niemeier lattices and type II codes over Z_4. (English summary) **2000i:94088**

Cusick, Thomas W. The Ajtai random class of lattices. (English summary) **2000k:94026**

Dougherty, Steven T. (*with* Gaborit, Philippe; Harada, Masaaki; Solé, Patrick) Type II codes over $\mathbf{F}_2 + u\mathbf{F}_2$. (English summary) **2000h:94053**

— *see also* **Bannai, Eiichi et al., 2000i:94091**

Gaborit, Philippe *see* **Dougherty, Steven T. et al., 2000h:94053** *and* **Bonnecaze, Alexis et al., 2000i:94088**

Harada, Masaaki *see* **Dougherty, Steven T. et al., 2000h:94053**;**Bonnecaze, Alexis et al., 2000i:94088** *and* **Bannai, Eiichi et al., 2000i:94091**

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Oura, Manabu *see* **Bannai, Eiichi et al., 2000i:94091**

Solé, Patrick *see* **Dougherty, Steven T. et al., 2000h:94053** *and* **Bonnecaze, Alexis et al., 2000i:94088**

Xing, Chao-Ping *see* **Niederreiter, Harald, 2000m:11051**

11H99 None of the above, but in this section

Items with secondary classifications in 11H99

Leep, David B. (*with* Schueller, Laura Mann) Zeros of a pair of quadratic forms defined over a finite field. (English summary) **2000c:11199**

Schueller, Laura Mann *see* **Leep, David B., 2000c:11199**

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

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Colloquium:

Transcendental Number Theory ★ Colloque Franco-Japonais: Théorie des Nombres Transcendants. [Franco-Japanese Colloquium: Transcendental Number Theory] **2000f:11003**

Tokyo ★ Colloque Franco-Japonais: Théorie des Nombres Transcendants. [Franco-Japanese Colloquium: Transcendental Number Theory] **2000f:11003**

11J04 Homogeneous approximation to one number

Elsner, C. On rational approximations with denominators from thin sets. (English summary) **2000g:11067**

Fuchs, Dmitry (*with* Fuchs, M. B.) On best approximations. I [Kvant **1971**, no. 6, 1–7]. (*see* **2000m:11003**)

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Fuchs, M. B. *see* **Fuchs, Dmitry**, (**2000m:11003**) *and* (**2000m:11003**)

Rosenholtz, Ira Tangent sequences, world records, π, and the meaning of life: some applications of number theory to calculus. **2000i:11109**

Items with secondary classifications in 11J04

Das, Raman Kumar *see* **Prasad, K. C., 2000d:11092**

Prasad, K. C. (*with* Das, Raman Kumar) Another Markoff-like rational approximation chain. (English summary) **2000d:11092**

11J06 Markov and Lagrange spectra and generalizations

Das, Raman Kumar *see* **Prasad, K. C., 2000d:11092**

Kreĭn, Mark Grigor'evich The Markov equation. **2000m:11055**

Prasad, K. C. (*with* Das, Raman Kumar) Another Markoff-like rational approximation chain. (English summary) **2000d:11092**

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Sheingorn, Mark *see* **Schmidt, Thomas A., 2000c:11110**

Vulakh, L. Ya. The Markov spectra for Fuchsian groups. (English summary) **2000m:11056**

Items with secondary classifications in 11J06

de A. Moreira, Carlos Gustavo T. ★ Conjuntos de Cantor, dinâmica e aritmética. (Portuguese) [Cantor sets, dynamics and arithmetic] **2000k:37023**

Button, J. O. The uniqueness of the prime Markoff numbers. (English summary) **2000c:11043**

Choi, Kwok-Kwong Stephen (*with* Vaaler, Jeffrey D.) Diophantine approximation in projective space. (English summary) **2000e:11090**

Kreĭn, Mark Grigor'evich Markov's Diophantine equation [Kvant **1985**, no. 4, 13–16]. (*see* **2000m:11003**)

Meignen, Pierrick Galleries in Poincaré half-spaces and Diophantine approximation. (English summary) **2000j:11101**

Vaaler, Jeffrey D. *see* **Choi, Kwok-Kwong Stephen, 2000e:11090**

Vulakh, L. Ya. Diophantine approximation in Euclidean spaces. (English summary) **2000j:11099**

11J13 Simultaneous homogeneous approximation, linear forms

Beresnevich, V. V. On approximation of real numbers by real algebraic numbers. **2000f:11087**

Bykovskiĭ, V. A. Vahlen's theorem for two-dimensional convergents of continued fractions. (Russian. Russian summary) **2000j:11098**

Choi, Kwok-Kwong Stephen (*with* Vaaler, Jeffrey D.) Diophantine approximation in projective space. (English summary) **2000e:11090**

Kratz, Werner On optimal constants for best two-dimensional simultaneous Diophantine approximations. (English summary) **2000f:11088**

Moshchevitin, N. G. On the geometry of best approximations. (Russian) **2000b:11078**

Philippon, Patrice Quelques remarques sur des questions d'approximation diophantienne. (English summary) [Some remarks concerning Diophantine approximations] **2000m:11057**

Vaaler, Jeffrey D. *see* **Choi, Kwok-Kwong Stephen, 2000e:11090**

Items with secondary classifications in 11J13

Győry, Kálmán (*with* Ru, Min) Integer solutions of a sequence of decomposable form inequalities. **2000a:11044**

Nowak, Werner Georg The critical determinant of the double paraboloid and Diophantine approximation in $\mathbf{R}^3$ and $\mathbf{R}^4$. (English summary) **2000a:11102**

Ru, Min *see* **Győry, Kálmán, 2000a:11044**

Troi, G. (*with* Zannier, Umberto) Note on the density constant in the distribution of self-numbers. II. (Italian summary) **2000f:11093**

Wang, Julie Tzu-Yueh ABC estimate, integral points, and geometry of $\mathbf{P}^n$ minus hyperplanes. (English summary) **2000j:11114**

Zannier, Umberto *see* **Troi, G., 2000f:11093**

11J17 Approximation by numbers from a fixed field

Bernik, V. I. (*with* Dickinson, Henrietta; Dodson, M. M.) Approximation of real numbers by values of integer polynomials. (Belorussian. English and Russian summaries) **2000g:11068**

Dickinson, Henrietta *see* **Bernik, V. I. et al., 2000g:11068**

Dodson, M. M. *see* **Bernik, V. I. et al., 2000g:11068**

Vulakh, L. Ya. Diophantine approximation in Euclidean spaces. (English summary) **2000j:11099**

11J20 Inhomogeneous linear forms

Dienst, Thilo On a problem of Schoenberg and Wills in Diophantine approximation. (English summary) **2000h:11071**

Komatsu, Takao[2] On inhomogeneous Diophantine approximation and the Nishioka-Shiokawa-Tamura algorithm. **2000d:11093**

— On an inhomogeneous Diophantine approximation problem of e. (Japanese. English summary) (*see* **2000j:11002**)

Items with secondary classifications in 11J20

Komatsu, Takao[2] On inhomogeneous Diophantine approximation with some quasi-periodic expressions. (English summary) **2000h:11073**

11J25 Diophantine inequalities [see also 11D75]

Cusick, Thomas W. The view-obstruction problem for 5-dimensional cubes. (English summary) **2000b:11079**

Items with secondary classifications in 11J25

Choi, Kwok-Kwong Stephen (*with* Vaaler, Jeffrey D.) Diophantine approximation in projective space. (English summary) **2000e:11090**

Győry, Kálmán (*with* Ru, Min) Integer solutions of a sequence of decomposable form inequalities. **2000a:11044**

Matveev, E. M. On the successive minima of the extended logarithmic height of algebraic numbers. (Russian. Russian summary) **2000g:11058**

Philippon, Patrice Quelques remarques sur des questions d'approximation diophantienne. (English summary) [Some remarks concerning Diophantine approximations] **2000m:11057**
Pinner, Christopher G. (*with* Vaaler, Jeffrey D.) The number of irreducible factors of a polynomial. III. (English summary) **2000e:11134**
Ru, Min *see* **Győry, Kálmán, 2000a:11044**
Vaaler, Jeffrey D. *see* **Choi, Kwok-Kwong Stephen, 2000e:11090** *and* **Pinner, Christopher G., 2000e:11134**
Wang, Julie Tzu-Yueh *ABC* estimate, integral points, and geometry of $\mathbf{P}^n$ minus hyperplanes. (English summary) **2000j:11114**

11J54 Small fractional parts of polynomials and generalizations

Borwein, P. B. (*with* Erdélyi, Tamás; Kós, Géza) Littlewood-type problems on [0, 1]. **2000c:11111**
— (*with* Mossinghoff, Michael J.) Rudin-Shapiro-like polynomials in L_4. (English summary) **2000j:11100**
Erdélyi, Tamás *see* **Borwein, P. B. et al., 2000c:11111**
Filaseta, Michael (*with* Trifonov, Ognian) The distribution of fractional parts with applications to gap results in number theory. **2000i:11110**
Kós, Géza *see* **Borwein, P. B. et al., 2000c:11111**
Meignen, Pierrick Galleries in Poincaré half-spaces and Diophantine approximation. (English summary) **2000j:11101**
Mossinghoff, Michael J. *see* **Borwein, P. B., 2000j:11100**
Trifonov, Ognian *see* **Filaseta, Michael, 2000i:11110**

Items with secondary classifications in 11J54

Bernik, V. I. (*with* Dickinson, Henrietta; Yuan, Jin[1]) Inhomogeneous Diophantine approximation on polynomials in $\mathbf{Q}_p$. **2000f:11089**
Dickinson, Henrietta *see* **Bernik, V. I. et al., 2000f:11089**
Yuan, Jin[1] *see* **Bernik, V. I. et al., 2000f:11089**

11J61 Approximation in non-Archimedean valuations

Bernik, V. I. (*with* Dickinson, Henrietta; Yuan, Jin[1]) Inhomogeneous Diophantine approximation on polynomials in $\mathbf{Q}_p$. **2000f:11089**
Choi, Kwok-Kwong Stephen On the distribution of points in projective space of bounded height. (English summary) **2000j:11102**
Dickinson, Henrietta *see* **Bernik, V. I. et al., 2000f:11089**
Kacha, Ali Fractions continues p-adiques et indépendance algébrique. (English and French summaries) [p-adic continued fractions and algebraic independence] **2000f:11090**
Lasjaunias, A. (*with* de Mathan, Bernard) Differential equations and Diophantine approximation in positive characteristic. (English summary) **2000f:11091**
Lauder, Alan G. B. Continued fractions of Laurent series with partial quotients from a given set. **2000j:11103**
de Mathan, Bernard *see* **Lasjaunias, A., 2000f:11091**
Tishchenko, K. I. On the approximation of p-adic integers by algebraic numbers of bounded degree. (Russian. English and Russian summaries) **2000c:11112**
Yuan, Jin[1] Simultaneous approximation of p-adic numbers. (English and Chinese summaries) **2000e:11091**
— *see also* **Bernik, V. I. et al., 2000f:11089**

Items with secondary classifications in 11J61

Bugeaud, Yann Linear forms in p-adic logarithms and the Diophantine equation $(x^n - 1)/(x - 1) = y^q$. **2000h:11029**
Locher, Helmut On the number of good approximations of algebraic numbers by algebraic numbers of bounded degree. **2000b:11080**
Luca, Florian Products of factorials in binary recurrence sequences. (English summary) **2000k:11086**
Voloch, José Felipe Plane curves and p-adic roots of unity. (English summary) **2000i:11179**
Yu, Kunrui p-adic logarithmic forms and group varieties. II. **2000e:11097**

11J68 Approximation to algebraic numbers

Alniaçik, K. The points on curves whose coordinates are U-numbers. (English and Italian summaries) **2000f:11092**
Evertse, Jan-Hendrik The number of algebraic numbers of given degree approximating a given algebraic number. **2000e:11092**
— (*with* Schlickewei, Hans Peter) The absolute subspace theorem and linear equations with unknowns from a multiplicative group. **2000d:11094**
Hirata-Kohno, Noriko On Wirsing's approximation. (Japanese) (*see* **2000e:11002**)
— Integer solutions of resultant inequalities: a brief survey around results of Evertse. (Japanese) (*see* **2000j:11002**)
Locher, Helmut On the number of good approximations of algebraic numbers by algebraic numbers of bounded degree. **2000b:11080**
Schlickewei, Hans Peter *see* **Evertse, Jan-Hendrik, 2000d:11094**

Items with secondary classifications in 11J68

Burger, Edward B. On real quadratic number fields and simultaneous Diophantine approximation. (English summary) **2000h:11072**
Fuchs, Dmitry (*with* Fuchs, M. B.) On best approximations. I [Kvant **1971**, no. 6, 1–7]. (*see* **2000m:11003**)
— (*with* Fuchs, M. B.) On best approximations. II [Kvant **1971**, no. 11, 8–15]. (*see* **2000m:11003**)
Fuchs, M. B. *see* **Fuchs, Dmitry, (2000m:11003)** *and* **(2000m:11003)**
Lasjaunias, A. (*with* de Mathan, Bernard) Differential equations and Diophantine approximation in positive characteristic. (English summary) **2000f:11091**
de Mathan, Bernard *see* **Lasjaunias, A., 2000f:11091**
Ru, Min Algebroid functions, Wirsing's theorem and their relations. (English summary) **2000k:11088**
Song, Xiangjun (*with* Tucker, Thomas J.) Dirichlet's theorem, Vojta's inequality, and Vojta's conjecture. (English summary) **2000d:11085**
Sons, L. R. (*with* Ye, Zhuan) The best error terms of classical functions. (English summary) **2000f:30020**
Thomas, Emery Counting solutions to trinomial Thue equations: a different approach. (English summary) **2000m:11026**
Tishchenko, K. I. On the approximation of p-adic integers by algebraic numbers of bounded degree. (Russian. English and Russian summaries) **2000c:11112**
Tucker, Thomas J. *see* **Song, Xiangjun, 2000d:11085**
Ye, Zhuan *see* **Sons, L. R., 2000f:30020**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Astels, S. Cantor sets and numbers with restricted partial quotients. (English summary) **2000c:11113**
Baxa, C. On the growth of the denominators of convergents. (English summary) **2000b:11081**
Bibiloni, Lluís *see* **Viader, Pelegrí et al., 2000a:11104**
Burger, Edward B. On real quadratic number fields and simultaneous Diophantine approximation. (English summary) **2000h:11072**
Golubeva, E. P. On quadratic irrationalities with short periods of continued fraction expansion. (Russian. Russian summary) **2000d:11095**
Komatsu, Takao[2] On inhomogeneous Diophantine approximation with some quasi-periodic expressions. (English summary) **2000h:11073**
(Obreschkoff, Nikola) *see* **Tonkov, Tonko, (2000m:00052)**
Paradís, Jaume *see* **Viader, Pelegrí et al., 2000a:11104**
van der Poorten, Alfred J. Reduction of continued fractions of formal power series. (English summary) **2000i:11111**
Prasad, K. C. On rational approximation of irrational numbers. **2000e:11093**
Shiu, P. A function from Diophantine approximations. (English summary) **2000h:11074**
Thakur, Dinesh S. Diophantine approximation exponents and continued fractions for algebraic power series. (English summary) **2000j:11104**
Tonkov, Tonko The contribution of Nikola Obreshkoff to the theory of Diophantine approximation. (English summary) (*see* **2000m:00052**)
Viader, Pelegrí (*with* Paradís, Jaume; Bibiloni, Lluís) A new light on Minkowski's $?(x)$ function. (English summary) **2000a:11104**

Items with secondary classifications in 11J70

Arnol'd, Vladimir Igorevich Higher-dimensional continued fractions. (English and Russian summaries) **2000h:11012**
Bundschuh, Peter Two topics in transcendence theory. **2000j:11110**
Cesaratto, E. *see* **Piacquadio Losada, María, 2000k:28017**
Chow, Timothy Y. (*with* Long, Christopher D.) Additive partitions and continued fractions. (English summary) **2000b:11113**
Elsner, C. On rational approximations with denominators from thin sets. (English summary) **2000g:11067**
Golubeva, E. P. An estimate for the Lévy constant for $\sqrt{p}$, and a class one number criterion for $\mathbf{Q}(\sqrt{p})$. (Russian. Russian summary) **2000d:11129**
Grabiner, David J. Continued fractions and unique additive partitions. (English summary) **2000b:11114**
Kacha, Ali Fractions continues p-adiques et indépendance algébrique. (English and French summaries) [p-adic continued fractions and algebraic independence] **2000f:11090**
— Mesures de transcendance et d'indépendance algébrique de fractions continues. (French summary) [Transcendence measures and algebraic independence of continued fractions] **2000j:11108**
Kamae, Teturo (*with* Tamura, Jun-ichi; Wen, Zhi Ying) Hankel determinants for the Fibonacci word and Padé approximation. **2000c:11039**
Komatsu, Takao[2] On inhomogeneous Diophantine approximation and the Nishioka-Shiokawa-Tamura algorithm. **2000d:11093**
Lauder, Alan G. B. Continued fractions of Laurent series with partial quotients from a given set. **2000j:11103**
Long, Christopher D. *see* **Chow, Timothy Y., 2000b:11113**
Piacquadio Losada, María (*with* Cesaratto, E.) Multifractal formalism on the Farey partition. (English summary) **2000k:28017**
van der Poorten, Alfred J. Formal power series and their continued fraction expansion. **2000m:11009**
— (*with* Walsh, P. Gary) A note on Jacobi symbols and continued fractions. **2000e:11004**
Schmidt, Thomas A. (*with* Sheingorn, Mark) Covering the Hecke triangle surfaces. (English summary) **2000c:11110**
Sheingorn, Mark *see* **Schmidt, Thomas A., 2000c:11110**
Smart, Nigel P. ★ The algorithmic resolution of Diophantine equations. (English summary) **2000c:11208**
Tamura, Jun-ichi *see* **Kamae, Teturo et al., 2000c:11039**
Vulakh, L. Ya. Diophantine approximation in Euclidean spaces. (English summary) **2000j:11099**
Walsh, P. Gary *see* **van der Poorten, Alfred J., 2000e:11004**
Wen, Zhi Ying *see* **Kamae, Teturo et al., 2000c:11039**

11J71 Distribution modulo one [see also 11K06]

Cai, Ying Chun On the distribution of αp^3 modulo one. (Chinese. English and Chinese summaries) **2000b:11082**
— On the distribution of αp^3 modulo one. (English summary) **2000e:11094**
Dubickas, Artūras A note on powers of Pisot numbers. (English summary) **2000k:11084**
Wang, Jing Long A property on irrational number. (English and Chinese summaries) **2000j:11105**

Items with secondary classifications in 11J71

Choi, Kwok-Kwong Stephen On the distribution of points in projective space of bounded

height. (English summary) **2000j:11102**
Watson, Thomas C. An improved characterization of normal sets and some counter-examples. (English summary) **2000c:11125**
Wooley, Trevor D. On Weyl's inequality, Hua's lemma, and exponential sums over binary forms. **2000k:11047**

11J72 Irrationality; linear independence over a field

Amou, Masaaki (*with* Katsurada, Masanori; Väänänen, Keijo O.) Arithmetical properties of the values of functions satisfying certain functional equations of Poincaré. **2000j:11106**
— (*with* Katsurada, Masanori) Irrationality results for values of generalized Tschakaloff series. (English summary) **2000c:11114**
Barat, G. (*with* Tichy, Robert F.; Tijdeman, Robert) Digital blocks in linear numeration systems. (English summary) **2000d:11096**
Bedulev, E. V. On the linear independence of numbers over number fields. (Russian. Russian summary) **2000b:11083**
Bundschuh, Peter Again on the irrationality of a certain infinite product. (English summary) **2000b:11084**
Chen, Yong Gao (*with* Ruzsa, Imre Z.) On the irrationality of certain series. (English summary) **2000i:11112**
Chirskiĭ, V. G. Arithmetic properties of some p-adic numbers. (Russian. Russian summary) **2000m:11058**
Duverney, Daniel Sur les séries de nombres rationnels à convergence rapide. (English and French summaries) [On fast-converging series of rational numbers] **2000c:11115**
Hančl, Jaroslav Linearly unrelated sequences. (English summary) **2000h:11075**
Katsurada, Masanori *see* **Amou, Masaaki et al., 2000c:11114** *and* **2000j:11106**
Luca, Florian On the Smarandache irrationality conjecture.
Prévost, Marc On the irrationality of $\sum t^n/(A\alpha^n + B\beta^n)$. (English summary) **2000b:11085**
Ruzsa, Imre Z. *see* **Chen, Yong Gao, 2000i:11112**
Shorey, Tarlok N. (*with* Tijdeman, Robert) Irrationality criteria for numbers of Mahler's type. **2000d:11097**
Sorokin, Vladimir N. On Apéry theorem. (Russian. Russian summary) **2000i:11113**
Stevens, Jan Zur Irrationalität von π. [On the irrationality of π] **2000i:11114**
Tichy, Robert F. *see* **Barat, G. et al., 2000d:11096**
Tijdeman, Robert *see* **Barat, G. et al., 2000d:11096** *and* **Shorey, Tarlok N., 2000d:11097**
Väänänen, Keijo O. *see* **Amou, Masaaki et al., 2000j:11106**
Van Assche, Walter Approximation theory and analytic number theory. **2000b:11086**
Zhou, Ping² On the irrationality of the infinite product $\prod_{j=0}^{\infty}(1 + q^{-j}r + q^{-2j}s)$. (English summary) **2000b:11087**

Items with secondary classifications in 11J72

Bundschuh, Peter (*with* Wallisser, R.) Maße für die lineare Unabhängigkeit von Werten ganz transzendenter Lösungen gewisser Funktionalgleichungen. [Measures of linear independence of values of entire transcendental solutions of certain functional equations] **2000m:11060**
— (*with* Shiue, Peter Jau-Shyong; Yu, Xiu Yuan) Transcendence and algebraic independence connected with Mahler type numbers. (English summary) **2000m:11059**
Chirskiĭ, V. G. On linear global relations. (Russian) **2000g:11072**
Dragović, Branko G. On p-adic power series. (English summary) **2000j:11184**
Duverney, Daniel Formes linéaires d'approximation et irrationalite de valeurs de q-fonctions. (English summary) [Linear approximation forms and irrationality of values of q-functions] **2000d:11099**
Golubeva, E. P. Geodesics on the upper half-plane and the distribution of quadratic irrationalities. (Russian. Russian summary) **2000i:11068**
Shiue, Peter Jau-Shyong *see* **Bundschuh, Peter et al., 2000m:11059**
Wallisser, R. *see* **Bundschuh, Peter, 2000m:11060**
Yu, Xiu Yuan *see* **Bundschuh, Peter et al., 2000m:11059**

11J81 Transcendence (general theory)

Allouche, Jean-Paul (*with* Gouyou-Beauchamps, D.; Skordev, Gencho) Transcendence of binomial and Lucas' formal power series. (English summary) **2000a:11105**
— (*with* Cosnard, Michel) The Komornik-Loreti constant is transcendental.
Bertrand, Daniel On André's proof of the Siegel-Shidlovsky theorem. (English and French summaries) **2000j:11107**
Cosnard, Michel *see* **Allouche, Jean-Paul**
Fuchs, Dmitry (*with* Fuchs, M. B.) Rational approximations and transcendence [Kvant **1973**, no. 12, 9–11]. (*see* **2000m:11003**)
Fuchs, M. B. *see* **Fuchs, Dmitry, (2000m:11003)**
Gouyou-Beauchamps, D. *see* **Allouche, Jean-Paul et al., 2000a:11105**
Kacha, Ali Mesures de transcendance et d'indépendance algébrique de fractions continues. (French summary) [Transcendence measures and algebraic independence of continued fractions] **2000j:11108**
Laurent, Michel (*with* Roy, Damien) Sur l'approximation algébrique en degré transcendance un. (English and French summaries) [Algebraic approximation in transcendence degree one] **2000b:11088**
Nishioka, Kumiko (*with* Tanaka, Taka-Aki; Wen, Zhi Ying) Substitution in two letters and transcendence. **2000g:11069**
Roy, Damien *see* **Laurent, Michel, 2000b:11088**
Skordev, Gencho *see* **Allouche, Jean-Paul et al., 2000a:11105**
Tanaka, Taka-Aki *see* **Nishioka, Kumiko et al., 2000g:11069**
Troi, G. (*with* Zannier, Umberto) Note on the density constant in the distribution of self-numbers. II. (Italian summary) **2000f:11093**
Waldschmidt, Michel Integer valued entire functions on Cartesian products. (English summary) **2000c:11116**
Wen, Zhi Ying *see* **Nishioka, Kumiko et al., 2000g:11069**
Zannier, Umberto *see* **Troi, G., 2000f:11093**

Items with secondary classifications in 11J81

Alniaçik, K. The points on curves whose coordinates are U-numbers. (English and Italian summaries) **2000f:11092**
Chow, Timothy Y. What is a closed-form number? **2000e:11156**
Marcos, J. E. Topological completions of the field of rational numbers which consist of Liouville numbers and rational numbers. (English summary) **2000d:12008**
Nagata, Makoto On an estimation on the number of rational values related to G-functions. **2000i:11121**
Shallit, Jeffrey Number theory and formal languages. (English summary) **2000d:68123**
Uchida, Yoshihisa Algebraic independence of the power series defined by blocks of digits. (English summary) **2000i:11119**
Van Assche, Walter Multiple orthogonal polynomials, irrationality and transcendence. (English summary) **2000k:42039**

11J82 Measures of irrationality and of transcendence

Bundschuh, Peter (*with* Wallisser, R.) Maße für die lineare Unabhängigkeit von Werten ganz transzendenter Lösungen gewisser Funktionalgleichungen. [Measures of linear independence of values of entire transcendental solutions of certain functional equations] **2000m:11060**
— (*with* Shiue, Peter Jau-Shyong; Yu, Xiu Yuan) Transcendence and algebraic independence connected with Mahler type numbers. (English summary) **2000m:11059**
Laurent, Michel Diophantine approximation and algebraic independence. **2000m:11061**
Sert, Alain Une version effective du théorème de Lindemann-Weierstrass par les déterminants d'interpolation. [An effective version of the Lindemann-Weierstrass theorem by interpolation determinants] **2000c:11117**
Shiue, Peter Jau-Shyong *see* **Bundschuh, Peter et al., 2000m:11059**
Viola, Carlo Hypergeometric functions and irrationality measures. **2000h:11076**
Waldschmidt, Michel On the numbers e^e, e^{e^2} and e^{π^2}. (English summary) **2000c:11118**
— Simultaneous approximation of logarithms of algebraic numbers. **2000m:11062**
Wallisser, R. *see* **Bundschuh, Peter, 2000m:11060**
Yu, Xiu Yuan *see* **Bundschuh, Peter et al., 2000m:11059**

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Amou, Masaaki (*with* Katsurada, Masanori) Irrationality results for values of generalized Tschakaloff series. (English summary) **2000c:11114**
Bedulev, E. V. On the linear independence of numbers over number fields. (Russian. Russian summary) **2000b:11083**
Duverney, Daniel Sur les séries de nombres rationnels à convergence rapide. (English and French summaries) [On fast-converging series of rational numbers] **2000c:11115**
Kacha, Ali Mesures de transcendance et d'indépendance algébrique de fractions continues. (French summary) [Transcendence measures and algebraic independence of continued fractions] **2000j:11108**
Katsurada, Masanori *see* **Amou, Masaaki, 2000c:11114**
Lasjaunias, A. (*with* de Mathan, Bernard) Differential equations and Diophantine approximation in positive characteristic. (English summary) **2000f:11091**
de Mathan, Bernard *see* **Lasjaunias, A., 2000f:11091**
Philippon, Patrice Mesures d'approximation de valeurs de fonctions analytiques. [Approximation measures for values of analytic functions] **2000d:11098**
— Quelques remarques sur des questions d'approximation diophantienne. (English summary) [Some remarks concerning Diophantine approximations] **2000m:11057**
Prévost, Marc On the irrationality of $\sum t^n/(A\alpha^n + B\beta^n)$. (English summary) **2000b:11085**
Shorey, Tarlok N. (*with* Tijdeman, Robert) Irrationality criteria for numbers of Mahler's type. **2000d:11097**
Tijdeman, Robert *see* **Shorey, Tarlok N., 2000d:11097**
Waldschmidt, Michel Density measure of rational points on abelian varieties. (English summary) **2000h:11077**
de Weger, Benjamin M. M. (*with* van de Woestijne, C. E.) On the diameter of sets of almost powers. **2000j:11109**
van de Woestijne, C. E. *see* **de Weger, Benjamin M. M., 2000j:11109**

11J83 Metric theory

Beresnevič, V. V. An analogue of Khinchin's theorem for simultaneous approximations of the points of curves in $\mathbf{R}^3$. (Russian. English summary) **2000i:11115**
— Exact order of approximation of real numbers by algebraic numbers. (Russian) **2000i:11116**
Bernik, V. I. (*with* Morozova, I. M.) Diophantine approximations and zeros of lacunary polynomials. (Russian. English and Russian summaries) **2000i:11117**
— (*with* Morozova, I. M.) Diophantine approximations by lacunary polynomials and the Hausdorff dimension. (Russian. English and Russian summaries) **2000e:11095**
— (*with* Vasil'ev, D. V.) A Khinchin-type theorem for integer-valued polynomials of a complex variable. (Russian. English summary) **2000i:11118**
Bluhm, Christian E. Liouville numbers, Rajchman measures, and small Cantor sets. (English summary) **2000m:11063**
Morozova, I. M. Joint approximation of zero by values of analytic functions, and the Hausdorff dimension. (Russian. English and Russian summaries) **2000g:11070**
— *see also* **Bernik, V. I., 2000e:11095** *and* **2000i:11117**
Vasil'ev, D. V. *see* **Bernik, V. I., 2000i:11118**

Items with secondary classifications in 11J83

Beresnevič, V. V. On approximation of real numbers by real algebraic numbers. **2000f:11087**
Moshchevitin, N. G. On the geometry of best approximations. (Russian) **2000b:11078**
Troi, G. (*with* Zannier, Umberto) Note on the density constant in the distribution of self-numbers. II. (Italian summary) **2000f:11093**
Zannier, Umberto *see* **Troi, G., 2000f:11093**

11J85 Algebraic independence; Gel′fond's method

Masser, D. W. Algebraic independence properties of the Hecke-Mahler series. **2000c:11119**
Nishioka, Kumiko (*with* Tanaka, Taka-Aki; Toshimitsu, Takeshi) Algebraic independence of sums of reciprocals of the Fibonacci numbers. (English summary) **2000c:11120**
Tanaka, Taka-Aki Algebraic independence of functions satisfying certain Mahler type functional equations and its applications. **2000k:11085**
— *see also* **Nishioka, Kumiko et al., 2000c:11120**
Toshimitsu, Takeshi *see* **Nishioka, Kumiko et al., 2000c:11120**
Uchida, Yoshihisa Algebraic independence of the power series defined by blocks of digits. (English summary) **2000i:11119**
Zhu, Yao Chen Algebraic independence by approximation method. (English summary) **2000e:11096**
— Algebraic independence of values of generalized Mahler series. (Chinese. Chinese summary) **2000c:11121**

Items with secondary classifications in 11J85

Bundschuh, Peter (*with* Shiue, Peter Jau-Shyong; Yu, Xiu Yuan) Transcendence and algebraic independence connected with Mahler type numbers. (English summary) **2000m:11059**
Gramain, François Transcendance et fonctions modulaires. (English and French summaries) [Transcendence and modular functions] **2000i:11120**
Laurent, Michel Diophantine approximation and algebraic independence. **2000m:11061**
— (*with* Roy, Damien) Sur l'approximation algébrique en degré transcendance un. (English and French summaries) [Algebraic approximation in transcendence degree one] **2000b:11088**
Roy, Damien *see* **Laurent, Michel, 2000b:11088**
Salikhov, V. Kh. A criterion for the algebraic independence of values of hypergeometric E-functions (the even case). (Russian. Russian summary) **2000g:11074**
Shiue, Peter Jau-Shyong *see* **Bundschuh, Peter et al., 2000m:11059**
Waldschmidt, Michel Transcendance et indépendance algébrique de valeurs de fonctions modulaires. (French summary) [Transcendence and algebraic independence of values of modular functions] **2000c:11122**
Yu, Xiu Yuan *see* **Bundschuh, Peter et al., 2000m:11059**

11J86 Linear forms in logarithms; Baker's method

Luca, Florian Products of factorials in binary recurrence sequences. (English summary) **2000k:11086**
Matveev, E. M. An explicit lower bound for a homogeneous rational linear form in logarithms of algebraic numbers. (Russian. Russian summary) **2000g:11071**
de Weger, Benjamin M. M. (*with* van de Woestijne, C. E.) On the diameter of sets of almost powers. **2000j:11109**
van de Woestijne, C. E. *see* **de Weger, Benjamin M. M., 2000j:11109**
Yu, Kunrui p-adic logarithmic forms and group varieties. II. **2000e:11097**

Items with secondary classifications in 11J86

Barat, G. (*with* Tichy, Robert F.; Tijdeman, Robert) Digital blocks in linear numeration systems. (English summary) **2000d:11096**
Bennett, Michael A. On consecutive integers of the form ax^2, by^2 and cz^2. **2000b:11024**
Bosser, Vincent Minorations de formes linéaires de logarithmes pour les modules de Drinfeld. (English summary) [Lower bounds of linear forms in logarithms for Drinfel′d modules] **2000b:11090**
Bugeaud, Yann Linear forms in p-adic logarithms and the Diophantine equation $(x^n-1)/(x-1)=y^q$. **2000h:11029**
Gaál, István (*with* Lettl, Günter) A parametric family of quintic Thue equations. (English summary) **2000i:11051**
Heuberger, Clemens On families of parametrized Thue equations. (English summary) **2000a:11045**
Hirata-Kohno, Noriko (*with* Shorey, Tarlok N.) On the equation $(x^m-1)/(x-1)=y^q$ with x power. **2000c:11051**
Le, Mao Hua A note on the greatest prime factors of Fermat numbers. (English summary) **2000a:11015**
Lettl, Günter *see* **Gaál, István, 2000i:11051**
Matveev, E. M. On the successive minima of the extended logarithmic height of algebraic numbers. (Russian. Russian summary) **2000g:11058**
Poulakis, Dimitrios Bounds for the size of integral solutions to $Y^m=f(X)$. (English summary) **2000a:11041**
Shorey, Tarlok N. (*with* Tijdeman, Robert) Irrationality criteria for numbers of Mahler's type. **2000d:11097**
— The equation $a(x^n-1)/(x-1)=by^q$ with $ab>1$. **2000d:11045**
— *see also* **Hirata-Kohno, Noriko, 2000c:11051**
Smart, Nigel P. ★ The algorithmic resolution of Diophantine equations. (English summary) **2000c:11208**
Takakuwa, Kei *see* **Terai, Nobuhiro, 2000c:11054**
Terai, Nobuhiro Applications of a lower bound for linear forms in two logarithms to exponential Diophantine equations. **2000g:11021**
— (*with* Takakuwa, Kei) On a generalization of the conjecture of Jésmanowicz. **2000c:11054**
Tichy, Robert F. *see* **Barat, G. et al., 2000d:11096**
Tijdeman, Robert *see* **Barat, G. et al., 2000d:11096** *and* **Shorey, Tarlok N., 2000d:11097**
Togbé, Alain On the solutions of a family of quartic Thue equations. (English summary) **2000i:11047**
Waldschmidt, Michel Simultaneous approximation of logarithms of algebraic numbers. **2000m:11062**
Walsh, P. Gary The Diophantine equation $X^2-db^2Y^4=1$. **2000e:11031**
de Weger, Benjamin M. M. (*with* van de Woestijne, C. E.) On the power-free parts of consecutive integers. **2000i:11145**
van de Woestijne, C. E. *see* **de Weger, Benjamin M. M., 2000i:11145**

11J89 Transcendence theory of elliptic and abelian functions

Amou, Masaaki On algebraic independence of certain functions related to the elliptic modular function. (Japanese) (*see* **2000e:11002**)
Kholyavka, Ya. M. Approximations of numbers associated with $\operatorname{cn} z$. (Ukrainian. English and Russian summaries) **2000b:11089**
Philippon, Patrice Mesures d'approximation de valeurs de fonctions analytiques. [Approximation measures for values of analytic functions] **2000d:11098**
Waldschmidt, Michel Transcendance et indépendance algébrique de valeurs de fonctions modulaires. (French summary) [Transcendence and algebraic independence of values of modular functions] **2000c:11122**

11J91 Transcendence theory of other special functions

Bundschuh, Peter Two topics in transcendence theory. **2000j:11110**
Chirskiĭ, V. G. On linear global relations. (Russian) **2000g:11072**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Rogers-Ramanujan continued fraction and reciprocal sums of Fibonacci numbers. **2000f:11094**
— Formes linéaires d'approximation et irrationalite de valeurs de q-fonctions. (English summary) [Linear approximation forms and irrationality of values of q-functions] **2000d:11099**
Gramain, François Transcendance et fonctions modulaires. (English and French summaries) [Transcendence and modular functions] **2000i:11120**
Nagata, Makoto Regular singularities in G-function theory. **2000g:11073**
— On an estimation on the number of rational values related to G-functions. **2000i:11121**
Nishioka, Keiji *see* **Duverney, Daniel et al., 2000f:11094**
Nishioka, Kumiko Mahler functions and binary linear recurrence sequences. **2000k:11087**
— (*with* Tanaka, Taka-Aki; Wen, Zhi Ying) Substitution in two symbols and transcendence. **2000f:11095**
— *see also* **Duverney, Daniel et al., 2000f:11094**
Salikhov, V. Kh. A criterion for the algebraic independence of values of hypergeometric E-functions (the even case). (Russian. Russian summary) **2000g:11074**
Sharif, Habib Hadamard products of certain power series. **2000j:11111**
Shiokawa, Iekata *see* **Duverney, Daniel et al., 2000f:11094**
Tanaka, Taka-Aki *see* **Nishioka, Kumiko et al., 2000f:11095**
Wen, Zhi Ying *see* **Nishioka, Kumiko et al., 2000f:11095**

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Allouche, Jean-Paul (*with* Gouyou-Beauchamps, D.; Skordev, Gencho) Transcendence of binomial and Lucas' formal power series. (English summary) **2000a:11105**
Chirskiĭ, V. G. Arithmetic properties of some p-adic numbers. (Russian. Russian summary) **2000m:11058**
Gouyou-Beauchamps, D. *see* **Allouche, Jean-Paul et al., 2000a:11105**
Masser, D. W. Algebraic independence properties of the Hecke-Mahler series. **2000c:11119**
Philippon, Patrice Mesures d'approximation de valeurs de fonctions analytiques. [Approximation measures for values of analytic functions] **2000d:11098**
Skordev, Gencho *see* **Allouche, Jean-Paul et al., 2000a:11105**
Tanaka, Taka-Aki Algebraic independence of functions satisfying certain Mahler type functional equations and its applications. **2000k:11085**
Viola, Carlo Hypergeometric functions and irrationality measures. **2000h:11076**
Zhu, Yao Chen Algebraic independence of values of generalized Mahler series. (Chinese. Chinese summary) **2000c:11121**

11J93 Transcendence theory of Drinfel′d and t-modules

Ably, Mohammed (*with* Denis, Laurent; Recher, François) Transcendance de l'invariant modulaire en caractéristique finie. (English summary) [Transcendence of the modular invariant in finite characteristic] **2000c:11123**
Bosser, Vincent Minorations de formes linéaires de logarithmes pour les modules de Drinfeld. (English summary) [Lower bounds of linear forms in logarithms for Drinfel′d modules] **2000b:11090**
Brownawell, W. Dale Linear independence and divided derivatives of a Drinfeld module. I. (English summary) **2000j:11112**
— (*with* Denis, Laurent) Linear independence and divided derivatives of a Drinfeld module. II. (English summary) **2000j:11113**
Damamme, Gilles Étude de $L(s,\chi)/\pi^s$ pour des fonctions L relatives à $\mathbf{F}_q(\langle T^{-1}\rangle)$ et associées à des caractères de degré 1. (English and French summaries) [Study of $L(s,\chi)/\pi^s$ for L-functions relative to $\mathbf{F}_q(\langle T^{-1}\rangle)$ and associated to characters of degree 1] **2000m:11064**
Denis, Laurent *see* **Ably, Mohammed et al., 2000c:11123** *and* **Brownawell, W. Dale, 2000j:11113**
Fresnel, Jean (*with* Koskas, Michel; de Mathan, Bernard) Automata and transcendence in positive characteristic. (English summary) **2000m:11065**
Koskas, Michel *see* **Fresnel, Jean et al., 2000m:11065**
de Mathan, Bernard *see* **Fresnel, Jean et al., 2000m:11065**
Recher, François *see* **Ably, Mohammed et al., 2000c:11123**

Items with secondary classifications in 11J93

David, Sinnou (*with* Denis, Laurent) Isogénie minimale entre modules de Drinfel′d. (English and French summaries) [Minimal isogeny between Drinfel′d modules] **2000f:11070**
Denis, Laurent *see* **David, Sinnou, 2000f:11070**

11J95 Results involving abelian varieties

Waldschmidt, Michel Density measure of rational points on abelian varieties. (English summary) **2000h:11077**

Items with secondary classifications in 11J95

Hirata-Kohno, Noriko Numerical solutions and the Schmidt subspace theorem. (Japanese) **2000f:11033**
Masser, D. W. Specializations of some hyperelliptic Jacobians. **2000j:11088**
Schmidt, Wolfgang M. Heights of points on subvarieties of $\mathbf{G}_m^n$. **2000k:11079**

11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)

Ru, Min Algebroid functions, Wirsing's theorem and their relations. (English summary) **2000k:11088**
Wang, Julie Tzu-Yueh *ABC* estimate, integral points, and geometry of $\mathbf{P}^n$ minus hyperplanes. (English summary) **2000j:11114**

Items with secondary classifications in 11J97

Győry, Kálmán (*with* Ru, Min) Integer solutions of a sequence of decomposable form inequalities. **2000a:11044**
Noguchi, Junjiro On holomorphic curves in semi-abelian varieties. **2000a:32034**
Ru, Min *see* **Győry, Kálmán**, **2000a:11044**
Song, Xiangjun (*with* Tucker, Thomas J.) Dirichlet's theorem, Vojta's inequality, and Vojta's conjecture. (English summary) **2000d:11085**
Tucker, Thomas J. *see* **Song, Xiangjun**, **2000d:11085**

11J99 None of the above, but in this section

Kleinbock, Dmitry Y. Bounded orbits conjecture and Diophantine approximation. (English summary) **2000k:11089**
Luca, Florian On the open question 5.
Perrine, Serge Trees of approximation constants. (English summary) **2000i:11122**
Pila, Jonathan (*with* Rodríguez Villegas, Fernando) Concordant sequences and integral-valued entire functions. (English summary) **2000b:11091**
Rodríguez Villegas, Fernando *see* **Pila, Jonathan**, **2000b:11091**

Items with secondary classifications in 11J99

Everest, Graham Counting generators of normal integral bases. (English summary) **2000e:11141**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

11K06 General theory of distribution modulo 1 [see also 11J71]

Allen, Dennis P., Jr. A new approach to the first digit phenomenon. (English summary) **2000e:11098**
Goto, Kazuo On monotone almost (P, μ)-u.d. mod 1 sequence. (English summary) **2000e:11099**
Hlawka, Edmund Über eine Konstruktion gleichverteilter Folgen auf Sphären, in der Drehgruppe und in der unitären Gruppe. [On a construction of uniformly distributed sequences and spheres, in the rotation group and in the unitary group] **2000a:11106**
Ohkubo, Yukio Notes on Erdös-Turán inequality. (English summary) **2000d:11100**
Tichy, Robert F. Three examples of triangular arrays with optimal discrepancy and linear recurrences. (*see* **2000a:11027**)

Items with secondary classifications in 11K06

Alexander, J. Ralph (*with* Beck, József; Chen, William W. L.) Geometric discrepancy theory and uniform distribution. (*see* **2000j:52001**)
Beck, József *see* **Alexander, J. Ralph et al.**, (**2000j:52001**)
Bleher, Pavel Trace formula for quantum integrable systems, lattice-point problem, and small divisors. (English summary) **2000f:11130**
Brown, Gavin[1] (*with* Yin, Qinghe) β-transformation, invariant measure and uniform distribution. (English summary) **2000b:11093**
Brüdern, Jörg (*with* Perelli, Alberto) Goldbach numbers and uniform distribution mod 1. **2000e:11129**
Chen, William W. L. *see* **Alexander, J. Ralph et al.**, (**2000j:52001**)
Hellekalek, Peter On the assessment of random and quasi-random point sets. **2000c:11127**
Hlawka, Edmund Über einige geometrische Anwendungen im Zusammenhang mit Pythagoräischen Tripeln und Gleichverteilung. (English summary) [On some geometric applications in connection with Pythagorean triples and uniform distribution] **2000k:11091**
Perelli, Alberto *see* **Brüdern, Jörg**, **2000e:11129**
Rudnick, Zeév (*with* Zaharescu, Alexandru) A metric result on the pair correlation of fractional parts of sequences. **2000h:11083**
Yin, Qinghe *see* **Brown, Gavin[1]**, **2000b:11093**
Zaharescu, Alexandru *see* **Rudnick, Zeév**, **2000h:11083**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Gittenberger, Bernhard (*with* Thuswaldner, Jörg Maximilian) The moments of the sum-of-digits function in number fields. (English summary) **2000f:11096**
Goodman, Gerald S. Statistical independence and normal numbers: an aftermath to Mark Kac's Carus Monograph. **2000a:11107**
(Kac, Mark) *see* **Goodman, Gerald S.**, **2000a:11107**
Kallós, Gábor Hausdorff dimension of univoque sets. (English summary) **2000k:11090**
— The structure of the univoque set in the small case. (English summary) **2000i:11123**
Levin, M. B. On the discrepancy estimate of normal numbers. **2000j:11115**
Thuswaldner, Jörg Maximilian *see* **Gittenberger, Bernhard**, **2000f:11096**
Vardi, Ilan Premiers chiffres significatifs et nombres algébriques. (English and French summaries) [Leading digits and algebraic numbers] **2000c:11124**
Watson, Thomas C. An improved characterization of normal sets and some counter-examples. (English summary) **2000c:11125**

Items with secondary classifications in 11K16

Akiyama, Shigeki The dynamical norm conjecture and Pisot tilings. (Japanese) (*see* **2000j:11002**)
Cooper, Curtis (*with* Kennedy, Robert E.) A generalization of a result by Trollope on digital sums. **2000e:11008**
Filipponi, Piero (*with* Freitag, Herta T.) Some probabilistic aspects of the Zeckendorf decomposition of integers. (*see* **2000a:11027**)
Freitag, Herta T. *see* **Filipponi, Piero**, (**2000a:11027**)
Kennedy, Robert E. *see* **Cooper, Curtis**, **2000e:11008**

11K31 Special sequences

Cassaigne, Julien (*with* Ferenczi, Sébastien; Mauduit, Christian; Rivat, Jöel; Sárközy, András) On finite pseudorandom binary sequences. III. The Liouville function. I. **2000c:11126**
Clark, L. H. Asymptotic normality of the Ward numbers. (English summary) **2000d:11101**
Erdős, Paul[1] (*with* Hall, R. R.) On the angular distribution of Gaussian integers with fixed norm. (English summary) **2000m:11066**
Ferenczi, Sébastien *see* **Cassaigne, Julien et al.**, **2000c:11126**
Hall, R. R. *see* **Erdős, Paul[1]**, **2000m:11066**
Mauduit, Christian *see* **Cassaigne, Julien et al.**, **2000c:11126**
Nair, Radhakrishnan On uniformly distributed sequences of integers and Poincaré recurrence. (English summary) **2000h:11078**
— On uniformly distributed sequences of integers and Poincaré recurrence. II. (English summary) **2000h:11079**
Rivat, Jöel *see* **Cassaigne, Julien et al.**, **2000c:11126**
Sárközy, András *see* **Cassaigne, Julien et al.**, **2000c:11126**
Usol'tsev, L. P. On the distribution of a sequence of fractional parts of a slowly increasing exponential function. (Russian. Russian summary) **2000i:11124**

Items with secondary classifications in 11K31

Belaga, Edward G. (*with* Mignotte, Maurice) Embedding the $3x + 1$ conjecture in a $3x + d$ context. (English summary) **2000d:11034**
Hlawka, Edmund Über eine Konstruktion gleichverteilter Folgen auf Sphären, in der Drehgruppe und in der unitären Gruppe. [On a construction of uniformly distributed sequences and spheres, in the rotation group and in the unitary group] **2000a:11106**
Mignotte, Maurice *see* **Belaga, Edward G.**, **2000d:11034**

11K36 Well-distributed sequences and other variations

De Velasco, M. J. Distribution of the fractional parts of polynomials. (English summary) **2000g:11075**
Vilenkin, I. V. On the uniformity of the distribution of the sequences $\{p_i\}$ and $\{v_i\}$. (Russian. English and Russian summaries) **2000j:11116**

Items with secondary classifications in 11K36

Kurlberg, Pär (*with* Rudnick, Zeév) The distribution of spacings between quadratic residues. **2000k:11109**
Rudnick, Zeév *see* **Kurlberg, Pär**, **2000k:11109**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Alexander, J. Ralph (*with* Beck, József; Chen, William W. L.) Geometric discrepancy theory and uniform distribution. (*see* **2000j:52001**)
Andrievskiĭ, Vladimir (*with* Blatt, Hans-Peter; Götz, Mario) Discrepancy estimates on the sphere. (English summary) **2000h:11080**
Baker, R. C. On irregularities of distribution. II. **2000j:11117**
Beck, József (*with* Sárközy, András; Stewart, C. L.) On irregularities of distribution in shifts and dilations of integer sequences. II. **2000j:11118**
— *see also* **Alexander, J. Ralph et al.**, (**2000j:52001**)
Blatt, Hans-Peter *see* **Andrievskiĭ, Vladimir et al.**, **2000h:11080**
Chen, William W. L. *see* **Alexander, J. Ralph et al.**, (**2000j:52001**)
Götz, Mario *see* **Andrievskiĭ, Vladimir et al.**, **2000h:11080**
Grabner, Peter J. (*with* Strauch, Oto; Tichy, Robert F.) L^p-discrepancy and statistical independence of sequences. (English summary) **2000a:11108**
Grozdanov, V. S. On the diaphony and star-diaphony of the semisymmetrical net of Roth. **2000j:11119**
Hellekalek, Peter On the assessment of random and quasi-random point sets. **2000c:11127**
Hlawka, Edmund Gleichverteilung und die willkürlichen Funktionen von Poincaré. (English summary) [Uniform distribution and the arbitrary functions of Poincaré] **2000j:11120**
Lev, Vsevolod F. The exact order of generalized diaphony and multidimensional numerical integration. (English summary) **2000a:11109**
Matoušek, Jiří On the discrepancy for boxes and polytopes. (English summary) **2000j:11121**
Sárközy, András *see* **Beck, József et al.**, **2000j:11118**
Stewart, C. L. *see* **Beck, József et al.**, **2000j:11118**
Strauch, Oto *see* **Grabner, Peter J. et al.**, **2000a:11108**
Tichy, Robert F. *see* **Grabner, Peter J. et al.**, **2000a:11108**
Vardi, Ilan Prime percolation. (English summary) **2000h:11081**

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Füredi, Zoltán (*with* Reznick, Bruce) The maximal angular gap among rectangular grid points. (English summary) **2000j:52024**
Levin, M. B. On the discrepancy estimate of normal numbers. **2000j:11115**
Reznick, Bruce *see* **Füredi, Zoltán**, **2000j:52024**
Tichy, Robert F. Three examples of triangular arrays with optimal discrepancy and linear recurrences. (*see* **2000a:11027**)

11K41 Continuous, p-adic and abstract analogues

Anashin, V. S. Uniformly distributed sequences in computer algebra or how to construct program generators of random numbers. **2000b:11092**
Brown, Gavin[1] (*with* Yin, Qinghe) β-transformation, invariant measure and uniform distribution. (English summary) **2000b:11093**
van Hameren, André (*with* Kleiss, Ronald) Quantum field theory for discrepancies. (English summary) **2000c:11128**
Hlawka, Edmund Über einige geometrische Anwendungen im Zusammenhang mit Pythagoräischen Tripeln und Gleichverteilung. (English summary) [On some geometric applications in connection with Pythagorean triples and uniform distribution] **2000k:11091**
Kleiss, Ronald *see* **van Hameren, André, 2000c:11128**
Polyakov, A. B. On equilibrium distributions on the set of permutations of integers. (Russian) **2000h:11082**
Rudnick, Zeév (*with* Zaharescu, Alexandru) A metric result on the pair correlation of fractional parts of sequences. **2000h:11083**
Yin, Qinghe *see* **Brown, Gavin[1], 2000b:11093**
Zaharescu, Alexandru *see* **Rudnick, Zeév, 2000h:11083**

Items with secondary classifications in 11K41

Andrievskiĭ, Vladimir (*with* Blatt, Hans-Peter; Götz, Mario) Discrepancy estimates on the sphere. (English summary) **2000h:11080**
Blatt, Hans-Peter *see* **Andrievskiĭ, Vladimir et al., 2000h:11080**
Chamizo, Fernando (*with* Córdoba, Antonio) Differentiability and dimension of some fractal Fourier series. **2000d:42002**
Córdoba, Antonio *see* **Chamizo, Fernando, 2000d:42002**
Frisch, Sophie (*with* Paštéka, Milan; Tichy, Robert F.; Winkler, Reinhard) Finitely additive measures on groups and rings. (English summary) **2000h:28011**
Götz, Mario *see* **Andrievskiĭ, Vladimir et al., 2000h:11080**
Paštéka, Milan *see* **Frisch, Sophie et al., 2000h:28011**
Tichy, Robert F. *see* **Frisch, Sophie et al., 2000h:28011**
Winkler, Reinhard *see* **Frisch, Sophie et al., 2000h:28011**

11K45 Pseudo-random numbers; Monte Carlo methods

Couture, Raymond (*with* L'Ecuyer, Pierre) Lattice computations for random numbers. (English summary) **2000i:11125**
Eichenauer-Herrmann, Jürgen Improved upper bounds for the discrepancy of pairs of inversive congruential pseudorandom numbers with power of two modulus. (English summary) **2000c:11129**
— *see also* **Larcher, Gerhard et al., 2000c:11130**
Guinzbourg, A. *see* **Sobol, I. M. et al., 2000e:11100**
Larcher, Gerhard (*with* Wolf, Reinhard; Eichenauer-Herrmann, Jürgen) On the average discrepancy of successive tuples of pseudo-random numbers over parts of the period. (English summary) **2000c:11130**
L'Ecuyer, Pierre *see* **Couture, Raymond, 2000i:11125**
Niederreiter, Harald (*with* Shparlinski, Igor E.) On the distribution and lattice structure of nonlinear congruential pseudorandom numbers. (English summary) **2000i:11126**
Shparlinski, Igor E. *see* **Niederreiter, Harald, 2000i:11126**
Shukhman, B. V. *see* **Sobol, I. M. et al., 2000e:11100**
Sobol, I. M. (*with* Shukhman, B. V.; Guinzbourg, A.) On the distribution of random ranges. (English summary) **2000e:11100**
Sugita, Hiroshi (*with* Takanobu, Satoshi) Limit theorem for symmetric statistics with respect to Weyl transformation: disappearance of dependency. **2000j:11122**
Takanobu, Satoshi *see* **Sugita, Hiroshi, 2000j:11122**
Wolf, Reinhard *see* **Larcher, Gerhard et al., 2000c:11130**

Items with secondary classifications in 11K45

Bender, Edward A. (*with* Canfield, E. Rodney) An approximate probabilistic model for structured Gaussian elimination. (English summary) **2000i:65064**
Brunner, D. (*with* Uhl, Andreas) Optimal multipliers for linear congruential pseudo-random number generators with prime moduli: parallel computations and properties. (English summary) **2000d:65008**
Bundschuh, Peter (*with* Zhu, Yao Chen) On interpolation of a class of functions by a number-theoretic method. (English summary) **2000d:41004**
Caballero Gil, P. (*with* Fúster Sabater, A.) Study of some pseudorandom sequences used in cryptography. (Spanish. English summary) **2000e:94033**
Canfield, E. Rodney *see* **Bender, Edward A., 2000i:65064**
Cassaigne, Julien (*with* Ferenczi, Sébastien; Mauduit, Christian; Rivat, Jöel; Sárkőzy, András) On finite pseudorandom binary sequences. III. The Liouville function. I. **2000c:11126**
Ferenczi, Sébastien *see* **Cassaigne, Julien et al., 2000c:11126**
Fúster Sabater, A. *see* **Caballero Gil, P., 2000e:94033**
Mauduit, Christian *see* **Cassaigne, Julien et al., 2000c:11126**
Rivat, Jöel *see* **Cassaigne, Julien et al., 2000c:11126**
Sárkőzy, András *see* **Cassaigne, Julien et al., 2000c:11126**
Uhl, Andreas *see* **Brunner, D., 2000d:65008**
Zhu, Yao Chen *see* **Bundschuh, Peter, 2000d:41004**

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Hensley, Doug Metric Diophantine approximation and probability. (English summary) **2000d:11102**
— The statistics of the continued fraction digit sum. (English summary) **2000k:11092**
Popescu, Cristina Continued fractions with odd partial quotients: an approach in the spirit of Doeblin. (English summary) **2000a:11110**
Rivat, Jöel On the metric theory of continued fractions. **2000b:11094**
Vallée, Brigitte Dynamique des fractions continues à contraintes périodiques. (French summary) [Dynamics of continued fractions with periodic constraints] **2000i:11127**

Items with secondary classifications in 11K50

Burton, Robert M., Jr. (*with* Kraaikamp, Cornelis; Schmidt, Thomas A.) Natural extensions for the Rosen fractions. (English summary) **2000j:11123**
Dal'bo, Françoise (*with* Peigné, Marc) Comportement asymptotique du nombre de géodésiques fermées sur la surface modulaire en courbure non constante. (English and French summaries) [Asymptotic behavior of the number of closed geodesics on the modular surface of non-constant curvature] **2000b:37022**
Guenais, Mélanie Singularité des produits de Anzai associés aux fonctions caractéristiques d'un intervalle. (English and French summaries) [Spectral singularity of Anzai skew products associated with step functions] **2000j:28018**
Kraaikamp, Cornelis *see* **Burton, Robert M., Jr. et al., 2000j:11123**
Meester, Ronald A simple proof of the exponential convergence of the modified Jacobi-Perron algorithm. (English summary) **2000f:37006**
Peigné, Marc *see* **Dal'bo, Françoise, 2000b:37022**
Schmidt, Thomas A. *see* **Burton, Robert M., Jr. et al., 2000j:11123**
Sebe, Gabriela Ileana A new approach of the classical operator associated with the continued fraction expansion. (English and Romanian summaries) **2000h:47054a**
— On Wirsing's approach to Gauss' problem and related questions. (English and Romanian summaries) **2000h:47054b**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

Aliev, Iskander *see* **Zhiglyavskiĭ, A. A., 2000b:11095**
Bibiloni, Lluis *see* **Viader, Pelegrí et al., 2000i:11128**
Brown, Gavin[1] (*with* Yin, Qinghe) β-expansions and frequency of zero. (English summary) **2000e:11101**
Burton, Robert M., Jr. (*with* Kraaikamp, Cornelis; Schmidt, Thomas A.) Natural extensions for the Rosen fractions. (English summary) **2000j:11123**
Hubert, Pascal (*with* Lacroix, Y.) Renormalization of algorithms in the probabilistic sense. (English summary) **2000c:11131**
Kraaikamp, Cornelis *see* **Burton, Robert M., Jr. et al., 2000j:11123**
Lacroix, Y. *see* **Hubert, Pascal, 2000c:11131**
Paradís, Jaume *see* **Viader, Pelegrí et al., 2000i:11128**
Schmidt, Thomas A. *see* **Burton, Robert M., Jr. et al., 2000j:11123**
Viader, Pelegrí (*with* Bibiloni, Lluis; Paradís, Jaume) On a problem of Alfréd Rényi. **2000i:11128**
Ward, Thomas B. Dynamical zeta functions for typical extensions of full shifts. (English summary) **2000m:11067**
Yin, Qinghe *see* **Brown, Gavin[1], 2000e:11101**
Zhiglyavskiĭ, A. A. (*with* Aliev, Iskander) Weyl sequences: asymptotic distributions of the partition lengths. **2000b:11095**

Items with secondary classifications in 11K55

Bisbas, Antonis A note on the distribution of digits in triadic expansions. (English summary) **2000c:28007**
Cesaratto, E. *see* **Piacquadio Losada, María, 2000k:28017**
Fan, Ai Hua (*with* Feng, De Jun) Analyse multifractale de la récurrence sur l'espace symbolique. (English and French summaries) [Multifractal analysis of recurrence on a symbolic space] **2000f:28018**
Feng, De Jun *see* **Fan, Ai Hua, 2000f:28018**
Guillotin-Plantard, Nadine (*with* Schneider, Dominique) Ergodic theorems for dynamic random walks. (English and French summaries) **2000g:28038**
Hill, Richard Michael (*with* Velani, Sanju L.) The shrinking target problem for matrix transformations of tori. (English summary) **2000i:37003**
Kallós, Gábor The structure of the univoque set in the small case. (English summary) **2000i:11123**
Piacquadio Losada, María (*with* Cesaratto, E.) Multifractal formalism on the Farey partition. (English summary) **2000k:28017**
Pollicott, Mark (*with* Weiss, Howard N.) Multifractal analysis of Lyapunov exponent for continued fraction and Manneville-Pomeau transformations and applications to Diophantine approximation. (English summary) **2000j:37027**
Šalát, Tibor Remarks on Steinhaus' property and ratio sets of sets of positive integers. (English summary) **2000m:11013**
Schneider, Dominique *see* **Guillotin-Plantard, Nadine, 2000g:28038**
Sidorov, Nikita (*with* Vershik, Anatoliĭ Moiseevich) Ergodic properties of the Erdős measure, the entropy of the golden shift, and related problems. (English summary) **2000a:28017**
Velani, Sanju L. *see* **Hill, Richard Michael, 2000i:37003**
Vershik, Anatoliĭ Moiseevich *see* **Sidorov, Nikita, 2000a:28017**
Viswanath, Divakar Random Fibonacci sequences and the number 1.13198824.... (English summary) **2000j:15040**
Weiss, Howard N. *see* **Pollicott, Mark, 2000j:37027**

11K60 Diophantine approximation [see also 11Jxx]

Items with secondary classifications in 11K60

Norton, Alec (*with* Tandy, Brian P.) Cantor sets, binary trees, and Lipschitz circle homeomorphisms. **2000d:37042**
Tandy, Brian P. *see* **Norton, Alec, 2000d:37042**

11K65 Arithmetic functions [see also 11Nxx]

Bareĭkis, G. (*with* Manstavičius, Eugenijus) Multiplicative functions and random processes. (Russian. Lithuanian summary) **2000a:11111**

Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. II. Prime factors. (English summary) **2000d:11103**
Indlekofer, Karl-Heinz (*with* Timofeev, Nikolai M.) On some subsets of the set of shifted primes. (English summary) **2000j:11124**
Mačiulis, A. Some estimates in the L_p-metric in the central limit theorem for additive functions. (Russian. Russian and Lithuanian summaries) **2000g:11076**
— A non-uniform estimate in the central limit theorem for sequences of strongly additive functions. (English summary) **2000m:11068**
Manstavičius, Eugenijus *see* **Bareikis, G., 2000a:11111**
Mauduit, Christian *see* **Erdős, Paul[1] et al., 2000d:11103**
Sárközy, András *see* **Erdős, Paul[1] et al., 2000d:11103**
Shevelev, V. S. Multiplicative functions in the Fermi-Dirac arithmetic. (Russian. English and Russian summaries) **2000f:11097**
Šiaulys, J. Convergence to the Poisson law. III. The moment method. (Russian. Lithuanian summary) **2000h:11084**
Tenenbaum, Gérald Crible d'Ératosthène et modèle de Kubilius. (English summary) [The sieve of Eratosthenes and the model of Kubilius] **2000g:11077**
Timofeev, Nikolai M. *see* **Indlekofer, Karl-Heinz, 2000j:11124**

Items with secondary classifications in 11K65

Bassily, N. L. (*with* Kátai, I.; van Rossum-Wijsmuller, Marijke) On the prime power divisors of the iterates of the Euler-φ function. (English summary) **2000g:11092**
Faĭnleĭb, A. S. *see* **Tulyaganova, M. I., 2000g:11091**
Gadiyar, H. Gopalkrishna (*with* Padma, R.) Ramanujan-Fourier series, the Wiener-Khintchine formula and the distribution of prime pairs. (English summary) **2000e:11115**
Granville, Andrew (*with* Soundararajan, K.) Motivating the multiplicative spectrum. (English summary) **2000m:11088**
Hattori, Tetsuya[1] (*with* Matsumoto, Kohji) A limit theorem for Bohr-Jessen's probability measures of the Riemann zeta-function. (English summary) **2000f:11100**
Kátai, I. *see* **Bassily, N. L. et al., 2000g:11092**
Khripunova, M. B. On a multiplicative function on the set of shifted prime numbers. (Russian. Russian summary) **2000f:11126**
Matsumoto, Kohji *see* **Hattori, Tetsuya[1], 2000f:11100**
Padma, R. *see* **Gadiyar, H. Gopalkrishna, 2000e:11115**
Raouj, A. (*with* Stef, A.) Sur la proximité des diviseurs des entiers. (English summary) [On the proximity of divisors of integers] **2000c:11151**
— (*with* Tenenbaum, Gérald) Sur l'écart quadratique moyen des diviseurs d'un entier normal. [On the standard deviation of the divisors of a normal integer] **2000e:11122**
van Rossum-Wijsmuller, Marijke *see* **Bassily, N. L. et al., 2000g:11092**
Skrabutėnas, Rimantas Local distributions of arithmetic functions on semigroups. (English summary) **2000a:11134**
Soundararajan, K. *see* **Granville, Andrew, 2000m:11088**
Spilker, Jürgen Die Fastperiodizität der Watson-Funktion. (English summary) [The almost-periodicity of the Watson function] **2000m:11069**
Stef, A. *see* **Raouj, A., 2000c:11151**
Taranenko, N. V. Distribution of the values of an additive function in short intervals. (Russian. English and Ukrainian summaries) **2000m:11091**
Tenenbaum, Gérald *see* **Raouj, A., 2000e:11122**
Tulyaganov, S. T. Summation of values of multiplicative functions. III. (Russian. English and Uzbek summaries) **2000g:11090**
Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) On the theorems of Delange and Halasz. (Russian. English and Uzbek summaries) **2000g:11091**

11K70 Harmonic analysis and almost periodicity

Spilker, Jürgen Die Fastperiodizität der Watson-Funktion. (English summary) [The almost-periodicity of the Watson function] **2000m:11069**

Items with secondary classifications in 11K70

Helson, Henry Disintegration of measures. **2000h:28003**
Iosevich, Alex (*with* Pedersen, Steen) Spectral and tiling properties of the unit cube. **2000d:52015**
Pedersen, Steen *see* **Iosevich, Alex, 2000d:52015**

11K99 None of the above, but in this section

Gamburd, Alex (*with* Jakobson, Dmitry; Sarnak, Peter) Spectra of elements in the group ring of SU(2). (English summary) **2000e:11102**
Jakobson, Dmitry *see* **Gamburd, Alex et al., 2000e:11102**
Mikhaĭlov, V. G. Limit theorems for the number of nonzero solutions of a system of random equations over the field GF(2). (Russian. Russian summary) **2000b:11096**
Sarnak, Peter *see* **Gamburd, Alex et al., 2000e:11102**

Items with secondary classifications in 11K99

Baney, Doug (*with* Beslin, Scott; De Angelis, Valerio) Farey tree and distribution of small denominators. (English summary) **2000b:11017**
Beslin, Scott *see* **Baney, Doug et al., 2000b:11017**
Borodin, A. M. The law of large numbers and the central limit theorem for the Jordan normal form of large triangular matrices over a finite field. (Russian. English and Russian summaries) **2000f:60044**
De Angelis, Valerio *see* **Baney, Doug et al., 2000b:11017**
Godbole, Anant P. (*with* Janson, Svante; Locantore, Nicholas W., Jr.; Rapoport, Rebecca) Random Sidon sequences. (English summary) **2000c:11031**
Hwang, Hsien-Kuei Asymptotics of Poisson approximation to random discrete distributions: an analytic approach. (English summary) **2000k:60054**
Janson, Svante *see* **Godbole, Anant P. et al., 2000c:11031**
Letta, Giorgio (*with* Pratelli, Luca) Démonstration simplifiée d'un résultat de K. L. Chung. (French and Italian summaries) [Simplified proof of a result of K. L. Chung]
Locantore, Nicholas W., Jr. *see* **Godbole, Anant P. et al., 2000c:11031**
Mendès France, Michel (*with* Tenenbaum, Gérald) Phase transitions and divisors. (English summary) **2000d:82017**
Pratelli, Luca *see* **Letta, Giorgio**
Rapoport, Rebecca *see* **Godbole, Anant P. et al., 2000c:11031**
Shkol'nīĭ, O. V. Random variables determined by the distributions of their digits in the number system with a complex base. (Ukrainian. English and Ukrainian summaries)
Tenenbaum, Gérald *see* **Mendès France, Michel, 2000d:82017**
Xiao, Guo Neng A probability method to solve indeterminate equations and its connections with number theory and combinatorics. (Chinese. English and Chinese summaries) **2000j:11041**
Yakubovich, Yu. V. Symmetric multiplicative statistics. (Russian. English and Russian summaries) **2000d:05011**

11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

11L03 Trigonometric and exponential sums, general

Besser, Amnon Sets of integers with large trigonometric sums. (English and French summaries) **2000g:11078**
Castro, Francis N. (*with* Moreno, Carlos Julio) Mixed exponential sums over finite fields. (English summary) **2000m:11070**
Cochrane, Todd (*with* Zheng, Zhiyong) Pure and mixed exponential sums. **2000k:11093**
Kim, Dae San Exponential sums for symplectic groups and their applications. **2000h:11085**
Moreno, Carlos Julio *see* **Castro, Francis N., 2000m:11070**
Zheng, Zhiyong *see* **Cochrane, Todd, 2000k:11093**

Items with secondary classifications in 11L03

Bourgeois, Pierre Annulation et pureté des groupes de cohomologie rigide associés à des sommes exponentielles. (English and French summaries) [Vanishing and purity of rigid cohomology groups associated with exponential sums] **2000j:11092**
Erdős, Paul[1] (*with* Kolesnik, Grigori) Prime power divisors of binomial coefficients. (English summary) **2000f:11017**
Kolesnik, Grigori *see* **Erdős, Paul[1], 2000f:11017**
Konyagin, Sergei V. (*with* Shparlinski, Igor E.) ★ Character sums with exponential functions and their applications. (English summary) **2000h:11089**
Roquette, Peter Exponential sums: the estimate of Hasse-Davenport-Weil. **2000d:11104**
Saïbi, Moussa Majoration de sommes trigonométriques modulo p^n. (English summary) [Upper bounds for trigonometric sums modulo p^n] **2000c:14025**
Shparlinski, Igor E. *see* **Konyagin, Sergei V., 2000h:11089**

11L05 Gauss and Kloosterman sums; generalizations

Chinen, Koji On estimation of Kloosterman sums with the theta multiplier. (English summary) **2000a:11112**
Curtis, Charles W. (*with* Shinoda, Ken-ichi) Unitary Kloosterman sums and the Gelfand-Graev representation of GL_2. **2000h:11086**
Dąbrowski, Romuald (*with* Reeder, Mark) Kloosterman sets in reductive groups. (English summary) **2000b:11097**
Deng, Pei Min On Kloosterman sums with oscillating coefficients. (English summary) **2000h:11087**
Luo, Wenzhi Bounds for incomplete hyper-Kloosterman sums. (English summary) **2000c:11132**
Reeder, Mark *see* **Dąbrowski, Romuald, 2000b:11097**
Shinoda, Ken-ichi *see* **Curtis, Charles W., 2000h:11086**
Ye, Yangbo Exponential sums for $GL(n)$ and their applications to base change. (English summary) **2000b:11098**
Yi, Yuan *see* **Zhang, Wen Peng, 2000k:11094**
Zhang, Wen Peng (*with* Yi, Yuan) On the $2k$-th power mean of Gauss sums. (Chinese. English and Chinese summaries) **2000k:11094**

Items with secondary classifications in 11L05

Cherednik, Ivan From double Hecke algebra to analysis. (English summary) **2000b:33013**
Deloup, Florian A reciprocity formula for Gauss sums and invariants of 3-manifolds. (English and French summaries) **2000a:57037**
Helleseth, Tor (*with* Zinov'ev, V. A.) On Z_4-linear Goethals codes and Kloosterman sums. (English summary) **2000i:11186**
Ishibashi, Haruo (*with* Ito, Tatsuro; Yamada, Mieko) Terwilliger algebras of cyclotomic schemes and Jacobi sums. (English summary) **2000e:11149**
Ito, Tatsuro *see* **Ishibashi, Haruo et al., 2000e:11149**
Kim, Dae San Exponential sums for symplectic groups and their applications. **2000h:11085**
Li, Wen-Ch'ing Winnie Eigenvalues of Ramanujan graphs. **2000h:11123**
Unterberger, André Produit de séries d'Eisenstein et Laplacien modulaire. (English and French summaries) [Products of Eisenstein series and the modular Laplacian] **2000b:11058**
Yamada, Mieko *see* **Ishibashi, Haruo et al., 2000e:11149**
Yoshida, Eiji Remark on the Kuznetsov trace formula. **2000e:11075**
Zinov'ev, V. A. *see* **Helleseth, Tor, 2000i:11186**

11L07 Estimates on exponential sums

Balog, Antal (*with* Ruzsa, Imre Z.) A new lower bound for the L^1 mean of the exponential sum with the Möbius function. **2000b:11099**
Canetti, Ran (*with* Friedlander, John B.; Shparlinski, Igor E.) On certain exponential sums and the distribution of Diffie-Hellman triples. (English summary) **2000g:11079**
Friedlander, John B. *see* **Canetti, Ran et al., 2000g:11079**
Furuya, Jun The mean square of an error term related to a certain exponential sum involving the divisor function. (Japanese) (*see* **2000e:11002**)

Huxley, Martin N. (*with* Watt, Nigel) Congruence families of exponential sums. **2000f:11098**
Karatsuba, A. A. An estimate for the L_1-norm of an exponential sum. (Russian) **2000a:11113**
Liu, Hong-Quan On a fundamental result in van der Corput's method of estimating exponential sums. **2000j:11125**
Marklof, Jens ★ Limit theorems for theta sums with applications in quantum mechanics. (German summary) **2000e:11103**
Roquette, Peter Exponential sums: the estimate of Hasse-Davenport-Weil. **2000d:11104**
Ruzsa, Imre Z. *see* **Balog, Antal, 2000b:11099**
Shparlinski, Igor E. *see* **Canetti, Ran et al., 2000g:11079**
Vorhauer, Ulrike M. A. (*with* Wirsing, Eduard) Three two-dimensional Weyl steps in the circle problem. III. Exponential integrals and application. (English summary) **2000k:11108**
— (*with* Wirsing, Eduard) Three two-dimensional Weyl steps in the circle problem. I. The Hessian determinant. (English summary) **2000k:11106**
Watt, Nigel *see* **Huxley, Martin N., 2000f:11098**
Wirsing, Eduard *see* **Vorhauer, Ulrike M. A., 2000k:11106** *and* **2000k:11108**
Wu, Jie[1] Double exponential sums and some applications. (English summary) **2000i:11129**
Zaharescu, Alexandru Averages of short exponential sums. **2000a:11114**

Items with secondary classifications in 11L07

Cao, Xiao Dong[1] *see* **Zhai, Wen Guang, 2000g:11097**
Deng, Pei Min On Kloosterman sums with oscillating coefficients. (English summary) **2000h:11087**
De Velasco, M. J. Distribution of the fractional parts of polynomials. (English summary) **2000g:11075**
Erdős, Paul[1] (*with* Kolesnik, Grigori) Prime power divisors of binomial coefficients. (English summary) **2000f:11017**
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11M35 Hurwitz and Lerch zeta functions

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11Nxx Multiplicative number theory

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11N05 Distribution of primes

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11N13 Primes in progressions [see also 11B25]

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11N25 Distribution of integers with specified multiplicative constraints

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11N30 Turán theory [see also 30Bxx]

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11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

Dress, François (*with* Olivier, Michel) Polynômes prenant des valeurs premières. (English and French summaries) [Polynomials that take prime values] **2000j:11134**
Olivier, Michel *see* **Dress, François, 2000j:11134**
Schultz, Albrecht Inseln der Ordnung unter den Primzahlen—Primzahlserien in Polynomen. (German summary) [Islands of order among primes—prime series in polynomials] **2000d:11111**

Items with secondary classifications in 11N32

Friedlander, John B. (*with* Iwaniec, Henryk) The polynomial $X^2 + Y^4$ captures its primes. **2000c:11150a**
— (*with* Iwaniec, Henryk) Asymptotic sieve for primes. **2000c:11150b**
Iwaniec, Henryk *see* **Friedlander, John B., 2000c:11150a** *and* **2000c:11150b**
Michel, Philippe Progrès récents du crible et applications (d'après Duke, Fouvry, Friedlander, Iwaniec). (French summary) [Recent progress on sieves and applications (after Duke, Fouvry, Friedlander, Iwaniec)] **2000d:11113**

11N35 Sieves

Diamond, Harold G. (*with* Halberstam, H.) Differential inequalities for Iwaniec's q functions. **2000f:11123**
Halberstam, H. *see* **Diamond, Harold G., 2000f:11123**

Liu, Yu-Ru (*with* Murty, Maruti Ram) The Turán sieve method and some of its applications. (English summary) **2000d:11112**
Meng, Zai Zhao The asymptotic formula for the basic function in the sieve method. (Chinese. English and Chinese summaries) **2000h:11105**
Michel, Philippe Progrès récents du crible et applications (d'après Duke, Fouvry, Friedlander, Iwaniec). (French summary) [Recent progress on sieves and applications (after Duke, Fouvry, Friedlander, Iwaniec)] **2000d:11113**
Motohashi, Yôichi On the remainder term in the Selberg sieve. (English summary) **2000d:11114**
Murty, Maruti Ram *see* **Liu, Yu-Ru, 2000d:11112**

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Galway, William F. Robert Bennion's "hopping sieve". (English summary) **2000m:11124**
Gordon, Daniel M. (*with* Rodemich, Gene) Dense admissible sets. (English summary) **2000k:11104**
Hsu, Chih-Nung The Brun-Titchmarsh theorem in function fields. (English summary) **2000i:11174**
Iwaniec, Henryk *see* **Friedlander, John B., 2000c:11150a** *and* **2000c:11150b**
Nakamula, Ken Recent developments of computational number theory. A survey on the number field sieve. **2000e:11158**
Rodemich, Gene *see* **Gordon, Daniel M., 2000k:11104**
Sorenson, Jonathan P. Trading time for space in prime number sieves. (English summary) **2000i:11191**
Tenenbaum, Gérald Crible d'Ératosthène et modèle de Kubilius. (English summary) [The sieve of Eratosthenes and the model of Kubilius] **2000g:11077**

11N36 Applications of sieve methods

Blecksmith, Richard (*with* Erdős, Paul[1]; Selfridge, J. L.) Cluster primes. **2000a:11126**
Daniel, Stephan (*with* Fouvry, Étienne) On real quadratic fields with odd class number. **2000a:11127**
Elliott, P. D. T. A. (*with* Murata, Leo) The least primitive root mod $2p^2$. **2000e:11118**
Erdős, Paul[1] *see* **Blecksmith, Richard et al., 2000a:11126**
Fouvry, Étienne *see* **Daniel, Stephan, 2000a:11127**
Kumchev, A. On the distribution of prime numbers of the form $[n^c]$. (English summary) **2000a:11128**
Murata, Leo *see* **Elliott, P. D. T. A., 2000e:11118**
te Riele, H. J. J. Computational sieving applied to some classical number-theoretic problems. (English summary) **2000e:11119**
Selfridge, J. L. *see* **Blecksmith, Richard et al., 2000a:11126**
Stakenas, V. A sieve result for Farey fractions. (Russian. Russian and Lithuanian summaries) **2000j:11135**
Tolev, D. I. Arithmetic progressions of prime-almost-prime twins. **2000f:11124**

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van Albada, P. J. Factorisation of the numbers $n^2 + 1$. (English summary) **2000a:11176**
Bassily, N. L. (*with* Kátai, I.; van Rossum-Wijsmuller, Marijke) On the prime power divisors of the iterates of the Euler-φ function. (English summary) **2000g:11092**
Belabas, Karim (*with* Fouvry, Étienne) Sur le 3-rang des corps quadratiques de discriminant premier ou presque premier. [On the 3-rank of quadratic fields with prime or almost prime discriminant] **2000i:11167**
Cai, Ying Chun On the distribution of αp^3 modulo one. (Chinese. English and Chinese summaries) **2000b:11082**
— (*with* Lu, Ming Gao) Chen's theorem in short intervals. **2000m:11095**
— *see also* **Lu, Ming Gao, 2000j:11146**
Cangelmi, Leonardo (*with* Pappalardi, Francesco) On the r-rank Artin conjecture. II. (English summary) **2000i:11149**
David, Chantal (*with* Pappalardi, Francesco) Average Frobenius distributions of elliptic curves. **2000g:11045**
Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. II. Prime factors. (English summary) **2000d:11103**
Ford, Kevin B. (*with* Konyagin, Sergei V.) On two conjectures of Sierpiński concerning the arithmetic functions σ and φ. (English summary) **2000d:11120**
Fouvry, Étienne Sur les propriétés de divisibilité des nombres de classes des corps quadratiques. (English and French summaries) [On divisibility properties of class numbers of quadratic fields] **2000f:11145**
— *see also* **Belabas, Karim, 2000i:11167**
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— (*with* Iwaniec, Henryk) Asymptotic sieve for primes. **2000c:11150b**
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Kátai, I. *see* **Bassily, N. L. et al., 2000g:11092**
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Liu, Jianya (*with* Liu, Ming-Chit; Wang, Tianze) The number of powers of 2 in a representation of large even integers. II. (English summary) **2000c:11164**
— (*with* Liu, Ming-Chit; Wang, Tianze) On the almost Goldbach problem of Linnik. (English and French summaries) **2000j:11145**
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Liu, Yu-Ru (*with* Murty, Maruti Ram) The Turán sieve method and some of its applications. (English summary) **2000d:11112**
Lu, Ming Gao (*with* Cai, Ying Chun) Chen's theorem in arithmetical progressions. (English summary) **2000j:11146**
— *see also* **Cai, Ying Chun, 2000m:11095**
Mauduit, Christian *see* **Erdős, Paul[1] et al., 2000d:11103**
Michel, Philippe Progrès récents du crible et applications (d'après Duke, Fouvry, Friedlander, Iwaniec). (French summary) [Recent progress on sieves and applications (after Duke, Fouvry, Friedlander, Iwaniec)] **2000d:11113**
Murty, Maruti Ram Artin's conjecture and elliptic analogues. **2000a:11098**
— *see also* **Liu, Yu-Ru, 2000d:11112**
Nakamula, Ken Recent developments of computational number theory. A survey on the number field sieve. **2000e:11158**
Pappalardi, Francesco *see* **David, Chantal, 2000g:11045** *and* **Cangelmi, Leonardo, 2000i:11149**
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Silverman, Joseph H. Divisibility of the specialization map for twists of abelian varieties. (English summary) **2000h:11061**
Tenenbaum, Gérald Crible d'Ératosthène et modèle de Kubilius. (English summary) [The sieve of Eratosthenes and the model of Kubilius] **2000g:11077**
Timofeev, Nikolai M. On the difference of the number of prime divisors of consecutive numbers. (Russian. Russian summary) **2000m:11094**
Wang, Tianze *see* **Liu, Jianya et al., 2000c:11164** *and* **2000j:11145**
Wisdom, Joel M. On the representations of a number as the sum of four fifth powers. **2000i:11151**
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11N37 Asymptotic results on arithmetic functions

Arkhipov, G. I. (*with* Soliba, Kh. M.; Chubarikov, V. N.) On the sum of values of a multidimensional function of divisors on a sequence of type $[n^c]$. (Russian. Russian summary) **2000i:11142**
Bui Minh Phong *see* **Kátai, I., 2000c:11153**
Calderón, Catalina (*with* Zárate Azcuna, María José) Asymptotic formulae and divisor problems. (English summary) **2000h:11106**
— (*with* De Velasco, M. J.) Sums of power free integers on progressions. (English summary) **2000m:11087**
Cao, Huizhong On an arithmetic function. (English summary) **2000j:11136**
Chubarikov, V. N. *see* **Arkhipov, G. I. et al., 2000i:11142**
Cui, Zhen *see* **Yu, Xiu Yuan, 2000d:11119**
De Koninck, Jean-Marie (*with* Grah, Jacques) Arithmetic functions and weighted averages. **2000b:11111**
De Velasco, M. J. *see* **Calderón, Catalina, 2000m:11087**
Dusart, Pierre Inégalités explicites pour $\psi(X)$, $\theta(X)$, $\pi(X)$ et les nombres premiers. (English and French summaries) [Explicit inequalities for $\psi(X)$, $\theta(X)$, $\pi(X)$ and the primes] **2000f:11125**
Erdős, Paul[1] (*with* Murty, Maruti Ram) On the order of a (mod p). **2000c:11152**
Fainleĭb, A. S. *see* **Tulyaganova, M. I., 2000g:11091**
Finch, Steven R. The average value of the Smarandache function. **2000a:11129**
Ford, Kevin B. The normal behavior of the Smarandache function. **2000a:11130**
Grah, Jacques *see* **De Koninck, Jean-Marie, 2000b:11111**
Granville, Andrew (*with* Soundararajan, K.) Motivating the multiplicative spectrum. (English summary) **2000m:11088**
Heath-Brown, D. R. A note on the paper: "Consecutive almost-primes" [J. Indian Math. Soc. (N.S.) **52** (1987), 39–49 (1988); MR 90h:11093]. **2000m:11089**
Hooley, C. On the Barban-Davenport-Halberstam theorem. X. **2000a:11131**
Kátai, I. (*with* Bui Minh Phong) On some pairs of multiplicative functions correlated by an equation. (English summary) **2000c:11153**
— (*with* Subbarao, M. V.) On the multiplicative function n^{rs}. **2000c:11154**
Khripunova, M. B. Additive problems with numbers that have a given number of prime divisors. (Russian. Russian summary) **2000g:11087**
— On a multiplicative function on the set of shifted prime numbers. (Russian. Russian summary) **2000f:11126**
Kim, Dong-Hyun On the joint distribution of q-additive functions in residue classes. (English summary) **2000a:11132**
Kiuchi, Isao (*with* Tanigawa, Yoshio) On the mean value theorem for the Dirichlet divisor problem for short intervals. (Japanese) **2000g:11088**
Korolev, M. A. On a new multiplicative function. (Russian) **2000c:11155**
Koverdyuk, Ī. V. The asymmetric divisor problem in an arithmetic progression. (Ukrainian. English and Ukrainian summaries) **2000i:11143**
Kühleitner, M. An omega theorem on differences of two squares. II. (English summary) **2000i:11144**
— On differences of two kth powers: an asymptotic formula for the mean-square of the error term. (English summary) **2000c:11156**
Lam, Kai-Yam (*with* Tsang, Kai-Man) The mean square of the error term in a generalization of the Dirichlet divisor problem. **2000e:11120**
Lau, Yuk-Kam On the mean square formula of the error term for a class of arithmetical functions. (English summary) **2000h:11107**
— On a weighted mean square result of the error terms of some arithmetical functions. (English summary) **2000m:11090**
Murty, Maruti Ram *see* **Erdős, Paul[1], 2000c:11152**
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Soliba, Kh. M. *see* **Arkhipov, G. I. et al., 2000i:11142**
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Timofeev, Nikolai M. (*with* Tulyaganov, S. T.) A problem similar to the additive divisor problem. (Russian. Russian summary) **2000c:11157**
Tóth, László Asymptotic formulae concerning arithmetical functions defined by cross-convolutions. VI. A-k-free integers. (English summary) **2000d:11118**
— Asymptotic formulae concerning arithmetical functions defined by cross-convolutions. IV. On a formula of Ramanujan. **2000d:11116**
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— Sum functions of certain generalized divisors. **2000h:11108**
— The number and the sum of P–k-ary divisors of m which are prime to n. (English summary) **2000a:11133**
Tsang, Kai-Man *see* **Lam, Kai-Yam, 2000e:11120**
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— *see also* **Timofeev, Nikolai M., 2000c:11157**
Tulyaganova, M. I. (*with* Faĭnleĭb, A. S.) On the theorems of Delange and Halasz. (Russian. English and Uzbek summaries) **2000g:11091**
Vorhauer, Ulrike M. A. Three two-dimensional Weyl steps in the circle problem. II. The logarithmic Riesz mean for a class of arithmetic functions. (English summary) **2000k:11107**
de Weger, Benjamin M. M. (*with* van de Woestijne, C. E.) On the power-free parts of consecutive integers. **2000i:11145**
van de Woestijne, C. E. *see* **de Weger, Benjamin M. M., 2000i:11145**
Yanagisawa, Naoki An asymptotic formula for a certain mean value in a divisor problem. (Japanese) (*see* **2000j:11002**)
Yokota, Hisashi The largest integer expressible as a sum of reciprocal of integers. (English summary) **2000i:11146**
Yu, Xiu Yuan (*with* Cui, Zhen) On the mean-value of the powers of digital sums. II. (Chinese. English and Chinese summaries) **2000d:11119**
Zárate Azcuna, María José *see* **Calderón, Catalina, 2000h:11106**
Zhai, Wen Guang On the average number of direct factors of finite abelian groups. II. **2000i:11147**
— The reciprocal sums of a class of additive functions. (Chinese. English and Chinese summaries) **2000i:11148**
— The additive completion of kth powers. (English summary) **2000j:11137**

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Bayadilov, E. E. On the divisor problem for values of a ternary cubic form. (Russian) **2000h:11033**
Berrizbeitia, Pedro (*with* Elliott, P. D. T. A.) On products of shifted primes. (English summary) **2000a:11122**
Cao, Xiao Dong[1] *see* **Zhai, Wen Guang, 2000g:11097**
Elliott, P. D. T. A. *see* **Berrizbeitia, Pedro, 2000a:11122**
Ishibashi, Makoto (*with* Kanemitsu, Shigeru) Dirichlet series with periodic coefficients. (English summary) **2000f:11113**
Kanemitsu, Shigeru *see* **Ishibashi, Makoto, 2000f:11113**
Khachatrian, Levon H. *see* **Ahlswede, Rudolf et al., 2000k:11105**
Mačiulis, A. A non-uniform estimate in the central limit theorem for sequences of strongly additive functions. (English summary) **2000m:11068**
McKee, J. F. The average number of divisors of an irreducible quadratic polynomial. **2000a:11053**
Sándor, József On values of arithmetical functions at factorials. I. **2000a:11011**
Sárközy, András *see* **Ahlswede, Rudolf et al., 2000k:11105**
Smati, A. (*with* Wu, Jie[1]) Distribution of values of some multiplicative functions over integers free of large prime factors. **2000a:11124**
Stepanauskas, Gediminas The mean values of multiplicative functions. III. (English summary) **2000a:11138**
— The mean values of multiplicative functions. IV. (English summary) **2000c:11160**
Vorhauer, Ulrike M. A. (*with* Wirsing, Eduard) Three two-dimensional Weyl steps in the circle problem. I. The Hessian determinant. (English summary) **2000k:11106**
Wirsing, Eduard *see* **Vorhauer, Ulrike M. A., 2000k:11106**
Wu, Jie[1] On the distribution of square-full and cube-full integers. (English summary) **2000a:11125**
— *see also* **Smati, A., 2000a:11124**
Yoshimoto, Masami Asymptotic expansions of power sums for Farey fractions. (Japanese) (*see* **2000j:11002**)
Zhai, Wen Guang (*with* Cao, Xiao Dong[1]) On the number of coprime integer pairs within a circle. **2000g:11097**

11N45 Asymptotic results on counting functions for algebraic and topological structures

Knopfmacher, Arnold (*with* Knopfmacher, John) Arithmetical semigroups related to trees and polyhedra. (English summary) **2000c:11158**
Knopfmacher, John *see* **Knopfmacher, Arnold, 2000c:11158**
Skrabutėnas, Rimantas Local distributions of arithmetic functions on semigroups. (English summary) **2000a:11134**
Zhang, Wen-Bin[1] A Chebyshev type upper estimate for prime elements in additive arithmetic semigroups. (English summary) **2000m:11092**

Items with secondary classifications in 11N45

Car, Mireille Distribution des polynômes irréductibles dans $\mathbf{F}_q[T]$. [Distribution of irreducible polynomials in $\mathbf{F}_q[T]$] **2000f:11160**
Liu, Yu-Ru (*with* Murty, Maruti Ram) The Turán sieve method and some of its applications. (English summary) **2000d:11112**
Murty, Maruti Ram *see* **Liu, Yu-Ru, 2000d:11112**
Stakenas, V. A sieve result for Farey fractions. (Russian. Russian and Lithuanian summaries) **2000j:11135**
Warlimont, Richard Tauberian theorems for sequences linked by a convolution. II. (English summary) **2000i:11137**
Wu, Jie[1] Double exponential sums and some applications. (English summary) **2000i:11129**
Zhai, Wen Guang On the average number of direct factors of finite abelian groups. II. **2000i:11147**
Zhang, Wen-Bin[1] The prime element theorem on additive formations. **2000f:11116**

11N56 Rate of growth of arithmetic functions

Chor, Benny (*with* Lemke, Paul; Mador, Ziv) On the number of ordered factorizations of natural numbers. (English summary) **2000m:11093**
Duras, Jean-Luc (*with* Nicolas, Jean-Louis; Robin, Guy) Grandes valeurs de la fonction d_k. (English summary) [Large values of the function d_k] **2000f:11127**
Finch, Steven R. Moments of the Smarandache function.
Fomenko, O. M. On the mean value of solutions of certain congruences. (Russian. Russian summary) **2000e:11121**
Ivić, Aleksandar (*with* Pomerance, Carl) On the distribution of champs. (English summary) **2000a:11135**
Lemke, Paul *see* **Chor, Benny et al., 2000m:11093**
Mador, Ziv *see* **Chor, Benny et al., 2000m:11093**
Nicolas, Jean-Louis *see* **Duras, Jean-Luc et al., 2000f:11127**
Pomerance, Carl *see* **Ivić, Aleksandar, 2000a:11135**
Robin, Guy *see* **Duras, Jean-Luc et al., 2000f:11127**

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Ahlswede, Rudolf (*with* Khachatrian, Levon H.; Sárközy, András) On the counting function of primitive sets of integers. (English summary) **2000k:11105**
Cangelmi, Leonardo (*with* Pappalardi, Francesco) On the r-rank Artin conjecture. II. (English summary) **2000i:11149**
Duke, W. Automorphic L-functions in level aspect. (English summary) **2000b:11056**
Dusart, Pierre Inégalités explicites pour $\psi(X)$, $\theta(X)$, $\pi(X)$ et les nombres premiers. (English and French summaries) [Explicit inequalities for $\psi(X)$, $\theta(X)$, $\pi(X)$ and the primes] **2000f:11125**
Hooley, C. On the Barban-Davenport-Halberstam theorem. X. **2000a:11131**
Khachatrian, Levon H. *see* **Ahlswede, Rudolf et al., 2000k:11105**
Pappalardi, Francesco *see* **Cangelmi, Leonardo, 2000i:11149**
Sárközy, András *see* **Ahlswede, Rudolf et al., 2000k:11105**

11N60 Distribution functions associated with additive and positive multiplicative functions

Babu, Gutti Jogesh On a conjecture by Erdős and its extension to additive functions on the set of pairs of integers. (English summary) **2000a:11136**
Bassily, N. L. (*with* Kátai, I.; van Rossum-Wijsmuller, Marijke) Number of prime divisors of $\varphi_k(n)$, where φ_k is the k-fold iterate of φ. (English summary) **2000c:11159**
Deléglise, Marc Bounds for the density of abundant integers. (English summary) **2000a:11137**
Kátai, I. *see* **Bassily, N. L. et al., 2000c:11159**
Marie-Jeanne, F. (*with* Tenenbaum, Gérald) Une propriété de concentration relative à la fonction d'Euler. [A concentration property with respect to the Euler function] **2000f:11128**
Raouj, A. (*with* Tenenbaum, Gérald) Sur l'écart quadratique moyen des diviseurs d'un entier normal. [On the standard deviation of the divisors of a normal integer] **2000e:11122**
van Rossum-Wijsmuller, Marijke *see* **Bassily, N. L. et al., 2000c:11159**
Stepanauskas, Gediminas The mean values of multiplicative functions. III. (English summary) **2000a:11138**
— The mean values of multiplicative functions. IV. (English summary) **2000c:11160**
Tenenbaum, Gérald *see* **Raouj, A., 2000e:11122** *and* **Marie-Jeanne, F., 2000f:11128**

Items with secondary classifications in 11N60

Erdős, Paul[1] (*with* Mauduit, Christian; Sárközy, András) On arithmetic properties of integers with missing digits. II. Prime factors. (English summary) **2000d:11103**
Kátai, I. (*with* Subbarao, M. V.) On the iterates of the sum of exponential divisors. (English summary) **2000h:11103**
Mačiulis, A. Some estimates in the L_p-metric in the central limit theorem for additive functions. (Russian. Russian and Lithuanian summaries) **2000g:11076**
— A non-uniform estimate in the central limit theorem for sequences of strongly additive functions. (English summary) **2000m:11068**
Mauduit, Christian *see* **Erdős, Paul**[1] **et al., 2000d:11103**
Sárközy, András *see* **Erdős, Paul**[1] **et al., 2000d:11103**
Subbarao, M. V. *see* **Kátai, I., 2000h:11103**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Bassily, N. L. (*with* Kátai, I.; van Rossum-Wijsmuller, Marijke) On the prime power divisors of the iterates of the Euler-φ function. (English summary) **2000g:11092**
Erdős, Paul[1] (*with* Joó, István; Kóczy, L. Á.) A characterisation theorem of the logarithmic function modulo 1. (English summary) **2000g:11093**
Ford, Kevin B. (*with* Konyagin, Sergei V.) On two conjectures of Sierpiński concerning the arithmetic functions σ and φ. (English summary) **2000d:11120**
Gao, Li *see* **Zhao, Zhen**[4], **2000a:11139**
Joó, István *see* **Erdős, Paul**[1] **et al., 2000g:11093**

Kátai, I. *see* **Bassily, N. L. et al., 2000g:11092**
Kóczy, L. Á. *see* **Erdős, Paul[1] et al., 2000g:11093**
Konyagin, Sergei V. *see* **Ford, Kevin B., 2000d:11120**
Melfi, Giuseppe On 5-tuples of twin practical numbers. (Italian summary) **2000j:11138**
van Rossum-Wijsmuller, Marijke *see* **Bassily, N. L. et al., 2000g:11092**
Timofeev, Nikolai M. On the difference of the number of prime divisors of consecutive numbers. (Russian. Russian summary) **2000m:11094**
Zhao, Zhen[4] (*with* Gao, Li) The distribution of the Lehmer DH numbers and their divisibility in primitive roots modulo n. (Chinese. English and Chinese summaries) **2000a:11139**

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11N69 Distribution of integers in special residue classes

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11N75 Applications of automorphic functions and forms to multiplicative problems [see also 11Fxx]

Ichihara, Yumiko The prime number theorem for arithmetic series related to products of Fourier coefficients associated with two cusp forms and zero-free regions of the Rankin-Selberg L-function. (Japanese) (*see* **2000j:11002**)
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11N80 Generalized primes and integers

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Lagarias, Jeffrey C. Beurling generalized integers with the Delone property. (English summary) **2000a:11140**

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11Pxx Additive number theory; partitions

11P05 Waring's problem and variants

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Deshouillers, Jean-Marc (*with* Hennecart, François; Landreau, Bernard) 7 373 170 279 850. (English summary) **2000i:11150**
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Hirschhorn, Michael D. (*with* Sellers, James A.) On representations of a number as a sum of three squares. (English summary) **2000a:11141**
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Deshouillers, Jean-Marc (*with* Hennecart, François; Landreau, Bernard) Do sums of 4 biquadrates have a positive density? **2000k:11051**
Hennecart, François *see* **Deshouillers, Jean-Marc et al., 2000k:11051**
Hwang, Jun Shung Small zeros of additive forms in several variables. (English summary) **2000e:11089**
Kawada, Koichi On the Waring-Goldbach problem for fourth and fifth powers. (Japanese) **2000g:11099**
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Tsui, William Y. (*with* Wooley, Trevor D.) The paucity problem for simultaneous quadratic and biquadratic equations. **2000a:11043**
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11P21 Lattice points in specified regions

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Betke, U. (*with* Böröczky, Károly, Jr.) Asymptotic formulae for the lattice point enumerator. (English summary) **2000i:11153**
Bleher, Pavel Trace formula for quantum integrable systems, lattice-point problem, and small divisors. (English summary) **2000f:11130**
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Cao, Xiao Dong[1] *see* **Zhai, Wen Guang, 2000g:11097**
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Furuya, Jun A note on a problem of lattice points in a certain planar domain. **2000i:11154**
— Lattice-point problems for certain domains in the plane. (Japanese) (*see* **2000j:11002**)
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Nowak, Werner Georg Fractional part sums and lattice points. (English summary) **2000f:11131**
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Erdős, Paul[1] (*with* Hall, R. R.) On the angular distribution of Gaussian integers with fixed norm. (English summary) **2000m:11066**
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Filaseta, Michael (*with* Trifonov, Ognian) The distribution of fractional parts with applications to gap results in number theory. **2000i:11110**
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Intissar, Ahmed (*with* Ould Moustapha, Mohamed Vall) Formule intégrale & développement asymptotique du nombre de points d'un réseau dans l'espace hyperbolique. (English and French summaries) [Integral formula and asymptotic expansion for the number of points of a lattice in hyperbolic space] (*see* **2000f:58003**)
Kirschenhofer, Peter (*with* Pethő, Attila; Tichy, Robert F.) On analytical and Diophantine properties of a family of counting polynomials. (English summary) **2000g:11020**
Lau, Yuk-Kam On the mean square formula of the error term for a class of arithmetical functions. (English summary) **2000h:11107**
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11P32 Goldbach-type theorems; other additive questions involving primes

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Bauer, Claus On a problem of the Goldbach-Waring type. (English summary) **2000e:11128**
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Deshouillers, Jean-Marc (*with* te Riele, H. J. J.; Saouter, Yannick) New experimental results concerning the Goldbach conjecture. (English summary) **2000j:11143**
Effinger, Gove Some numerical implications of the Hardy and Littlewood analysis of the 3-primes problem. (English summary) **2000j:11144**
Elliott, P. D. T. A. On a multiplicative analogue of Goldbach's conjecture. **2000i:11155**
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Kawada, Koichi On the Waring-Goldbach problem for fourth and fifth powers. (Japanese) **2000g:11099**
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— On a binary problem with prime numbers. (English summary) **2000i:11156**
— A short intervals result for $2n$-twin primes in arithmetic progressions. **2000m:11096**
Li, Hongze The number of powers of 2 in a representation of large even integers by sums of such powers and of two primes. **2000m:11098**
Liu, Jianya The Goldbach-Vinogradov theorem with three primes in a thin subset. (English summary) **2000a:11145**
— (*with* Liu, Ming-Chit; Wang, Tianze) The number of powers of 2 in a representation of large even integers. II. (English summary) **2000c:11164**
— (*with* Zhan, Tao) The Goldbach-Vinogradov theorem. **2000d:11123**
— (*with* Liu, Ming-Chit; Wang, Tianze) On the almost Goldbach problem of Linnik. (English and French summaries) **2000j:11145**
— (*with* Liu, Ming-Chit; Zhan, Tao) Squares of primes and powers of 2. (English summary) **2000k:11110**
Liu, Ming-Chit (*with* Zhan, Tao) The Goldbach problem with primes in arithmetic progressions. **2000d:11124**
— (*with* Wang, Tianze) On the equation $a_1p_1 + a_2p_2 + a_3p_3 = b$ with prime variables in arithmetic progressions. (English summary) **2000c:11165**
— *see also* **Liu, Jianya et al.**, **2000c:11164**;**2000j:11145** *and* **2000k:11110**
Lu, Ming Gao (*with* Cai, Ying Chun) Chen's theorem in arithmetical progressions. (English summary) **2000j:11146**
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Mazur, Barry C. Questions about powers of numbers. **2000k:11111**
Mikawa, Hiroshi On the sum of three squares of primes. **2000d:11125**
Peneva, T. P. On some additive problems with primes and almost-primes. (*see* **2000j:11002**)
Perelli, Alberto *see* **Brüdern, Jörg**, **2000e:11129**
te Riele, H. J. J. *see* **Deshouillers, Jean-Marc et al.**, **2000j:11143**
Sankaranarayanan, Ayyadurai Goldbach problem in polynomial values. (English summary) **2000c:11166**
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Wang, Yonghui Numbers representable by five prime squares with primes in an arithmetic progression. **2000i:11158**
Warlimont, Richard Binary and ternary additive problems. **2000i:11159**
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Zhan, Tao *see* **Liu, Jianya et al.**, **2000d:11123**;**2000k:11110** *and* **Liu, Ming-Chit**, **2000d:11124**

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Lau, Yau-Luen (*with* Liu, Ming-Chit) Some recent work on the exceptional sets for the sums in two or three variables. (English summary) **2000a:11142**
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Tang, Tai Ming The Goldbach problem in $M_n(\mathbf{Z})$. (Chinese. English and Chinese summaries) **2000d:11039**
Tolev, D. I. Arithmetic progressions of prime-almost-prime twins. **2000f:11124**

11P55 Applications of the Hardy-Littlewood method [see also 11D85]

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— (*with* Wooley, Trevor D.) On Waring's problem: a square, four cubes and a biquadrate. **2000g:11095**
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Harcos, Gergely On sums of four smooth squares. (English summary) **2000c:11161**
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Jutila, Matti Convolutions of Fourier coefficients of cusp forms. (English summary) **2000j:11060**
Kawada, Koichi On the Waring-Goldbach problem for fourth and fifth powers. (Japanese) **2000g:11099**
Kumchev, A. A Diophantine inequality involving prime powers. **2000f:11132**
Lau, Yau-Luen (*with* Liu, Ming-Chit) Some recent work on the exceptional sets for the sums in two or three variables. (English summary) **2000a:11142**
Li, Hongze The number of powers of 2 in a representation of large even integers by sums of such powers and of two primes. **2000m:11098**
Liu, Jianya The Goldbach-Vinogradov theorem with three primes in a thin subset. (English summary) **2000a:11145**
— (*with* Liu, Ming-Chit; Wang, Tianze) The number of powers of 2 in a representation of large even integers. II. (English summary) **2000c:11164**
— (*with* Liu, Ming-Chit; Wang, Tianze) On the almost Goldbach problem of Linnik. (English and French summaries) **2000j:11145**
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Lu, Ming Gao Important progress on Waring's problem: an improved iterative method. (Chinese. English and Chinese summaries) **2000e:11126**
Mikawa, Hiroshi On the sum of three squares of primes. **2000d:11125**
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Peter, Manfred Almost periodicity of the normalized representation numbers associated to positive definite ternary quadratic forms. (English summary) **2000m:11036**
Plagne, Alain On the two-dimensional subset sum problem. (English and French summaries) **2000j:11148**
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Stein, Elias M. (*with* Wainger, Stephen) Discrete analogues in harmonic analysis. I. l^2 estimates for singular Radon transforms. (English summary) **2000j:42027**
Tolev, D. I. Arithmetic progressions of prime-almost-prime twins. **2000f:11124**
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Wang, Yonghui Numbers representable by five prime squares with primes in an arithmetic progression. **2000i:11158**
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— *see also* **Brüdern, Jörg, 2000g:11095**
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Zhan, Tao *see* **Liu, Jianya et al., 2000k:11110**

11P70 Inverse problems of additive number theory

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Freiman, Gregory A. Structure theory of set addition. (English and French summaries) **2000j:11147**
Hamidoune, Yahya Ould (*with* Lladó, A. S.; Serra, Oriol) On sets with a small subset sum. (English summary) **2000k:11113**
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Nathanson, Melvyn B. (*with* Tenenbaum, Gérald) Inverse theorems and the number of sums and products. (English and French summaries) **2000h:11110**
Plagne, Alain On the two-dimensional subset sum problem. (English and French summaries) **2000j:11148**
Ruzsa, Imre Z. An analog of Freiman's theorem in groups. (English and French summaries) **2000h:11111**
Serra, Oriol *see* **Hamidoune, Yahya Ould et al., 2000k:11113**
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Deshouillers, Jean-Marc (*with* Freiman, Gregory A.) On an additive problem of Erdős and Straus. II. (English and French summaries) **2000i:11039**
Freiman, Gregory A. (*with* Low, Lewis; Pitman, Jane) Sumsets with distinct summands and the Erdős-Heilbronn conjecture on sums of residues. (English and French summaries) **2000j:11036**
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Hamidoune, Yahya Ould On small subset product in a group. (English and French summaries) **2000i:11023**
Lev, Vsevolod F. On small sumsets in abelian groups. (English and French summaries) **2000f:11025**
Low, Lewis *see* **Freiman, Gregory A. et al., 2000j:11036**
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11P81 Elementary theory of partitions [see also 05A17]

Alladi, Krishnaswami (*with* Andrews, George E.) A quartic key identity for a partition theorem of Göllnitz. (English summary) **2000f:11133**
Andrews, George E. *see* **Alladi, Krishnaswami, 2000f:11133**
Ashrafi, Ali Reza An exact expression for the partition function $p(n)$. (English summary) **2000m:11099**
Bender, Carl M. (*with* Brody, Dorje C.; Meister, Bernhard K.) Quantum field theory of partitions. (English summary) **2000m:11100**
Bousquet-Mélou, Mireille (*with* Eriksson, Kimmo) A refinement of the lecture hall theorem. (English summary) **2000b:11112**
Brody, Dorje C. *see* **Bender, Carl M. et al., 2000m:11100**
Chow, Timothy Y. (*with* Long, Christopher D.) Additive partitions and continued fractions. (English summary) **2000b:11113**
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Grabiner, David J. Continued fractions and unique additive partitions. (English summary) **2000b:11114**
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Kim, Dongsu (*with* Yee, Ae Ja) A note on partitions into distinct parts and odd parts. (English summary) **2000f:11134**
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Murthy, Amarnath Generalization of partition function, introducing Smarandache factor partition.
Park, SeungKyung Complete partitions. **2000a:11146**
Robbins, Neville On the parity of certain partition functions. (*see* **2000a:11027**)
— Some identities connecting partition functions to other number-theoretic functions. **2000a:11147**
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Soh, Sun T. A Diophantine construction of an exact algebraic formula for graded partition functions. (English summary) **2000m:11101**
Yee, Ae Ja *see* **Kim, Dongsu, 2000f:11134**

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Alladi, Krishnaswami Partition identities involving gaps and weights. II. (English summary) **2000a:11149**
Andrews, George E. (*with* Knopfmacher, Arnold; Knopfmacher, John) Engel expansions and the Rogers-Ramanujan identities. (English summary) **2000k:11029**
Kim, Chang Bum (*with* Park, Dai Yong) Classifications of the self-conjugate partitions. (English summary) **2000e:05013**
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Knopfmacher, John *see* **Andrews, George E. et al., 2000k:11029**
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Wilf, Herbert S. The number-theoretic content of the Jacobi triple product identity. (English summary) **2000d:11024**

11P82 Analytic theory of partitions

Almkvist, Gert Asymptotic formulas and generalized Dedekind sums. (English summary) **2000d:11126**
Andrews, George E. (*with* Schilling, Anne; Warnaar, S. Ole) An A_2 Bailey lemma and Rogers-Ramanujan-type identities. (English summary) **2000c:11167**
Bell, J. P. (*with* Borwein, P. B.; Richmond, L. Bruce) Growth of the product $\prod_{j=1}^{n}(1-x^{a_j})$. **2000c:11168**
Borwein, P. B. *see* **Bell, J. P. et al., 2000c:11168**
Farkas, Hershel M. (*with* Kra, Irwin) Ramanujan partition identities. **2000j:11150**
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Garvan, Frank Modular functions, Maple and Andrews' 10th problem. (English summary) **2000c:11169**
Kra, Irwin *see* **Farkas, Hershel M., 2000j:11150** *and* **2000j:11151**
Muller, Marie-Paule About the Erdős pairs. **2000f:11135**
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Pittel, Boris G. Confirming two conjectures about the integer partitions. (English summary) **2000k:11114**
Richmond, L. Bruce *see* **Bell, J. P. et al., 2000c:11168**
Schilling, Anne *see* **Andrews, George E. et al., 2000c:11167**
Warnaar, S. Ole Supernomial coefficients, Bailey's lemma and Rogers-Ramanujan-type identities. A survey of results and open problems. (English summary) **2000i:11160**
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Guo, Li[1] (*with* Ono, Ken) The partition function and the arithmetic of certain modular L-functions. **2000m:11102**
McCallum, Michael *see* **Blecksmith, Richard et al., 2000a:11019**
McCoy, Barry M. Quasi-particles and the generalized Rogers-Ramanujan identities. (English summary) **2000f:82036**
McIntosh, Richard J. Some asymptotic formulae for q-shifted factorials. (English summary) **2000f:11018**
Ono, Ken Distribution of the partition function modulo m. **2000k:11115**
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Schilling, Anne (*with* Warnaar, S. Ole) Supernomial coefficients, polynomial identities and q-series. (English summary) **2000c:33023**
Selfridge, J. L. *see* **Blecksmith, Richard et al., 2000a:11019**
Warnaar, S. Ole *see* **Schilling, Anne, 2000c:33023**

11P83 Partitions; congruences and congruential restrictions

Alladi, Krishnaswami Partition identities involving gaps and weights. II. (English summary) **2000a:11149**
— A fundamental but unexploited partition invariant. **2000g:11100**
Ekin, A. Bülent Inequalities for the crank. (English summary) **2000a:11150**
— Some properties of partitions in terms of crank. (English summary) **2000j:11155**
Guo, Li[1] (*with* Ono, Ken) The partition function and the arithmetic of certain modular L-functions. **2000m:11102**
Hirschhorn, Michael D. Another short proof of Ramanujan's mod 5 partition congruence, and more.
— (*with* Sellers, James A.) Some parity results for 16-cores. (English summary) **2000f:11136**
Jiménez-Urroz, Jorge Congruences for the partition function in certain arithmetic progressions. (English summary) **2000m:11103**
Kolitsch, Louis W. (*with* Sellers, James A.) Elementary proofs of infinitely many congruences for 8-cores. (English summary) **2000c:11170**
Nicolas, Jean-Louis (*with* Ruzsa, Imre Z.; Sárközy, András) On the parity of additive representation functions. (English summary) **2000a:11151**
Ono, Ken Distribution of the partition function modulo m. **2000k:11115**
— *see also* **Guo, Li[1], 2000m:11102**
Ruzsa, Imre Z. *see* **Nicolas, Jean-Louis et al., 2000a:11151**
Sárközy, András *see* **Nicolas, Jean-Louis et al., 2000a:11151**
Sellers, James A. *see* **Kolitsch, Louis W., 2000c:11170** *and* **Hirschhorn, Michael D., 2000f:11136**
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— (*with* Andrews, George E.) A quartic key identity for a partition theorem of Göllnitz. (English summary) **2000f:11133**
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Berndt, Bruce C. (*with* Ono, Ken) Ramanujan's unpublished manuscript on the partition and tau functions with proofs and commentary. **2000i:01027**
Bousquet-Mélou, Mireille (*with* Eriksson, Kimmo) A refinement of the lecture hall theorem. (English summary) **2000b:11112**
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— (*with* Kra, Irwin) A function-theoretic approach to the Ramanujan partition identities with applications to combinatorial number theory. **2000j:11151**
Foda, Omar (*with* Leclerc, Bernard; Okado, Masato; Thibon, Jean-Yves; Welsh, Trevor A.) Branching functions of $A_{n-1}^{(1)}$ and Jantzen-Seitz problem for Ariki-Koike algebras. (English summary) **2000f:17036**
Kra, Irwin *see* **Farkas, Hershel M., 2000j:11150** *and* **2000j:11151**
Leclerc, Bernard *see* **Foda, Omar et al., 2000f:17036**

Okado, Masato *see* **Foda, Omar et al., 2000f:17036**
Ono, Ken The partition function in arithmetic progressions. **2000j:11153**
— *see also* **Berndt, Bruce C., 2000i:01027**
(Ramanujan, Srinivasa Aiyangar) *see* **Berndt, Bruce C., 2000i:01027**
Thibon, Jean-Yves *see* **Foda, Omar et al., 2000f:17036**
Welsh, Trevor A. *see* **Foda, Omar et al., 2000f:17036**

11P99 None of the above, but in this section

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Bilu, Y. F. (*with* Lev, Vsevolod F.; Ruzsa, Imre Z.) Rectification principles in additive number theory. (English summary) **2000a:11018**
Ewell, John A. New representations of Ramanujan's tau function. (English summary) **2000e:11018**
Gowers, W. Timothy Fourier analysis and Szemerédi's theorem. (English summary) **2000i:11026**
Lev, Vsevolod F. *see* **Bilu, Y. F. et al., 2000a:11018**
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Yakubovich, Yu. V. Symmetric multiplicative statistics. (Russian. English and Russian summaries) **2000d:05011**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

Esmonde, Jody (*with* Murty, Maruti Ram) ★ Problems in algebraic number theory. (English summary) **2000f:11137**
(Harder, G.) *see* **Neukirch, Jürgen, 2000m:11104**
Mollin, Richard A. ★ Algebraic number theory. (English summary) **2000e:11130**
Murty, Maruti Ram *see* **Esmonde, Jody, 2000f:11137**
Neukirch, Jürgen ★ Algebraic number theory. **2000m:11104**
(Schappacher, Norbert) *see* **Neukirch, Jürgen, 2000m:11104**

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Cohen, Henri ★ Advanced topics in computational number theory. (English summary) **2000k:11144**
Kato, Kazuya (*with* Kurokawa, Nobushige; Saito, Takeshi) ★ Number theory. 1. **2000i:11002**
Kurokawa, Nobushige *see* **Kato, Kazuya et al., 2000i:11002**
(Kuwata, Masato) *see* **Kato, Kazuya et al., 2000i:11002**
Saito, Takeshi *see* **Kato, Kazuya et al., 2000i:11002**

11R04 Algebraic numbers; rings of algebraic integers

Alaca, Şaban p-integral bases of algebraic number fields. (English summary) **2000m:11105**
Dubickas, Artūras On intervals containing full sets of conjugates of algebraic integers. **2000i:11161**
Einsiedler, Manfred A generalisation of Mahler measure and its application in algebraic dynamical systems. (English summary) **2000c:11171**
Farkas, Gábor Digital expansions in real algebraic quadratic fields. (English summary) **2000c:11172**
Louboutin, Stéphane (*with* Mollin, Richard A.) Solutions to $x^2 - Dy^2 = Q$. (English summary) **2000f:11138**
Mollin, Richard A. *see* **Louboutin, Stéphane, 2000f:11138**

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Brenken, B. Hecke algebras and semigroup crossed product C^*-algebras. (English summary) **2000g:46071**
Cheng, Jian Jun (*with* Wang, Ji Min; Li, Lian) Determination of the signs of algebraic expressions containing real algebraic numbers. (Chinese. English and Chinese summaries) **2000c:11206**
Coykendall, Jim The half-factorial property in integral extensions. (English summary) **2000d:13013**
Goncharov, A. B. The arithmetic of Gaussian integers [Kvant **1985**, no. 12, 8–13]. (*see* **2000m:11003**)
Gonzalez, Nathalie Elasticity and ramification. (English summary) **2000b:13027**
Kable, Anthony C. Power bases in dihedral quartic fields. (English summary) **2000a:11153**
Katre, S. A. (*with* Khule, Sangita A.) Matrices over orders in algebraic number fields as sums of kth powers. (English summary) **2000e:11026**
Khule, Sangita A. *see* **Katre, S. A., 2000e:11026**
Li, Lian *see* **Cheng, Jian Jun et al., 2000c:11206**
Spearman, Blair K. (*with* Williams, Kenneth S.) An explicit integral basis for a pure cubic field. (English summary) **2000a:11154**
Takata, Toshie (*with* Yokota, Yoshiyuki) The PSU(N) invariants of 3-manifolds are algebraic integers. **2000k:57016**
Ullrich, Peter Die Entdeckung der Analogie zwischen Zahl- und Funktionenkörpern: der Ursprung der "Dedekind-Ringe". [The discovery of the analogy between number and function fields: the origin of "Dedekind rings"] **2000f:11002**
Wang, Ji Min *see* **Cheng, Jian Jun et al., 2000c:11206**
Williams, Kenneth S. *see* **Spearman, Blair K., 2000a:11154**
Yokota, Yoshiyuki *see* **Takata, Toshie, 2000k:57016**

11R06 PV-numbers and generalizations; other special algebraic numbers

Akiyama, Shigeki The Pisot number series and auto-affine tilings. (Japanese) (*see* **2000e:11002**)
— The dynamical norm conjecture and Pisot tilings. (Japanese) (*see* **2000j:11002**)
Bertin, M. J. Quelques nouveaux résultats sur les nombres de Pisot et de Salem. (French summary) [Some new results on Pisot and Salem numbers] **2000c:11173**
— The operator $x + (1/x) - 2$ and the reciprocal integers. (English summary) **2000e:11131**
Boyd, David W. Mahler's measure and special values of L-functions—some conjectures. (English summary) **2000f:11139**
Burdík, Čestmír (*with* Frougny, Christiane; Gazeau, Jean Pierre; Krejcar, Rudolf) Beta-integers as natural counting systems for quasicrystals. (English summary) **2000c:11174**
Flammang, V. (*with* Grandcolas, M.; Rhin, G.) Small Salem numbers. (English summary) **2000e:11132**
Frougny, Christiane *see* **Burdík, Čestmír et al., 2000c:11174**
Garth, David On limits of PV k-tuples. **2000i:11162**
Gazeau, Jean Pierre *see* **Burdík, Čestmír et al., 2000c:11174**
Grandcolas, M. *see* **Flammang, V. et al., 2000e:11132**
Komornik, Vilmos (*with* Loreti, Paola; Pedicini, Marco) An approximation property of Pisot numbers. (English summary) **2000k:11116**
Krejcar, Rudolf *see* **Burdík, Čestmír et al., 2000c:11174**
Lalande, Franck Corps de nombres engendrés par un nombre de Salem. [Number fields generated by a Salem number] **2000c:11175**
Loreti, Paola *see* **Komornik, Vilmos et al., 2000k:11116**
McKee, J. F. (*with* Rowlinson, P.; Smyth, C. J.) Salem numbers and Pisot numbers from stars. (English summary) **2000d:11127**
Pedicini, Marco *see* **Komornik, Vilmos et al., 2000k:11116**
Rhin, G. *see* **Flammang, V. et al., 2000e:11132**
Rowlinson, P. *see* **McKee, J. F. et al., 2000d:11127**
Smyth, C. J. Salem numbers of negative trace. (English summary) **2000i:11163**
— *see also* **McKee, J. F. et al., 2000d:11127**

Items with secondary classifications in 11R06

Dubickas, Artūras A note on powers of Pisot numbers. (English summary) **2000k:11084**
El Naschie, M. S. Remarks to the PV number $((\sqrt{5}+1)/2)^3 = 4.236$. (English summary) **2000d:11159**
Frougny, Christiane On-line addition in real base. (English summary) **2000i:68099**
— (*with* Sakarovitch, Jacques) A rewrite system associated with quadratic Pisot units. (English summary) **2000j:68091**
— (*with* Solomyak, Boris) On the context-freeness of the θ-expansions of the integers. (English and French summaries) **2000k:11013**
Rodríguez Villegas, Fernando Modular Mahler measures. I. (English summary) **2000e:11085**
Sakarovitch, Jacques *see* **Frougny, Christiane, 2000j:68091**
Solomyak, Boris *see* **Frougny, Christiane, 2000k:11013**
Vardi, Ilan Premiers chiffres significatifs et nombres algébriques. (English and French summaries) [Leading digits and algebraic numbers] **2000c:11124**

11R09 Polynomials (irreducibility, etc.)

Borisov, Alexandr (*with* Filaseta, Michael; Lam, Tsit-Yuen; Trifonov, Ognian) Classes of polynomials having only one non-cyclotomic irreducible factor. **2000k:11117**
Dubickas, Artūras On a polynomial with large number of irreducible factors. (English summary) **2000c:11176**
— Polynomials with high multiplicity at unity and Tarry's problem. (Russian. Russian summary) **2000j:11156**
Everest, Graham Measuring the height of a polynomial. **2000b:11115**
Filaseta, Michael On the factorization of polynomials with small Euclidean norm. **2000c:11177**
— (*with* Solan, Ikhalfani) An extension of a theorem of Ljunggren. **2000b:11116**
— *see also* **Borisov, Alexandr et al., 2000k:11117**
Konyagin, Sergei V. On the number of irreducible polynomials with 0, 1 coefficients. **2000f:11140**
Lam, Tsit-Yuen *see* **Borisov, Alexandr et al., 2000k:11117**
Lenstra, H. W., Jr. Finding small degree factors of lacunary polynomials. (English summary) **2000e:11133**
— On the factorization of lacunary polynomials. (English summary) **2000c:11178**
Pinner, Christopher G. (*with* Vaaler, Jeffrey D.) The number of irreducible factors of a polynomial. III. (English summary) **2000e:11134**
Ruppert, Wolfgang M. Reducibility of polynomials $f(x, y)$ modulo p. (English summary) **2000d:11128**
Solan, Ikhalfani *see* **Filaseta, Michael, 2000b:11116**
Trifonov, Ognian *see* **Borisov, Alexandr et al., 2000k:11117**
Vaaler, Jeffrey D. *see* **Pinner, Christopher G., 2000e:11134**

Items with secondary classifications in 11R09

Beukers, Frits (*with* Shorey, Tarlok N.; Tijdeman, Robert) Irreducibility of polynomials and arithmetic progressions with equal products of terms. (English summary) **2000c:11046**
Everest, Graham (*with* Pinner, Christopher G.) Bounding the elliptic Mahler measure. II. (English summary) **2000a:11099**
Hirata-Kohno, Noriko Integer solutions of resultant inequalities: a brief survey around results of Evertse. (Japanese) (*see* **2000j:11002**)
Pinner, Christopher G. *see* **Everest, Graham, 2000a:11099**
Ruzsa, Imre Z. On Mahler's measure for polynomials in several variables. (English summary) **2000c:11041**
Shorey, Tarlok N. *see* **Beukers, Frits et al., 2000c:11046**
Smyth, C. J. Salem numbers of negative trace. (English summary) **2000i:11163**
Spearman, Blair K. (*with* Williams, Kenneth S.) De Moivre's quintic and a theorem of Galois. (English summary) **2000b:11119**
Tijdeman, Robert *see* **Beukers, Frits et al., 2000c:11046**
Walsh, P. Gary On the complexity of rational Puiseux expansions. (English summary) **2000b:14031**
Williams, Kenneth S. *see* **Spearman, Blair K., 2000b:11119**

11R11 Quadratic extensions

Benjamin, Elliot (*with* Lemmermeyer, Franz; Snyder, Chip) Real quadratic fields with abelian 2-class field tower. (English summary) **2000c:11179**

Golubeva, E. P. An estimate for the Lévy constant for $\sqrt{p}$, and a class one number criterion for $\mathbf{Q}(\sqrt{p})$. (Russian. Russian summary) **2000d:11129**

Kaplan, Pierre Problème d'Eisenstein pour le conducteur 3. (English summary) [Eisenstein problem for conductor 3] **2000d:11130**

Kishi, Yasuhiro A criterion for a certain type of imaginary quadratic fields to have 3-ranks of the ideal class groups greater than one. **2000a:11152**

— (*with* Miyake, Katsuya) Parametrization of the quadratic fields whose class numbers are divisible by three. (English summary) **2000m:11106**

Lemmermeyer, Franz *see* **Benjamin, Elliot et al., 2000c:11179**

Miyake, Katsuya *see* **Kishi, Yasuhiro, 2000m:11106**

Mollin, Richard A. Cyclic subgroups of ideal class groups in real quadratic orders. (English summary) **2000i:11164**

Sase, Masahiko On a family of quadratic fields whose class numbers are divisible by five. (English summary) **2000b:11117**

Schmid, Peter Paul The Stickelberger element of an imaginary quadratic field. **2000j:11157**

Snyder, Chip *see* **Benjamin, Elliot et al., 2000c:11179**

Srinivasan, Anitha Prime producing polynomials: proof of a conjecture by Mollin and Williams. **2000h:11112**

Thuswaldner, Jörg Maximilian Elementary properties of canonical number systems in quadratic fields. (*see* **2000a:11027**)

— Fractal dimension of sets induced by bases of imaginary quadratic fields. (English summary) **2000e:11135**

Items with secondary classifications in 11R11

Atasoy, Muzaffer The linear Diophantine equation with n-unknowns in $\mathbf{Q}(\sqrt{5})$. (English summary) **2000k:11041**

Azizi, Abdelmalek Capitulation of the 2-ideal classes of $\mathbf{Q}(\sqrt{p_1p_2}, i)$ where p_1 and p_2 are primes such that $p_1 \equiv 1 \pmod 8$, $p_2 \equiv 5 \pmod 8$ and $(\frac{p_1}{p_2}) = -1$. (English summary) **2000h:11118**

Belabas, Karim On the mean 3-rank of quadratic fields. (English summary) **2000g:11102**

Benjamin, Elliot Lower bounds on the 2-class number of the Hilbert 2-class field of quadratic number fields with 2-class number greater than or equal to 16. (English summary) **2000b:11122**

— (*with* Parry, Charles J.) Refined lower bounds on the 2-class number of the Hilbert 2-class field of imaginary quadratic number fields with elementary 2-class group of rank 3. (English summary) **2000b:11125**

Buchmann, Johannes (*with* Jacobson, Michael J., Jr.; Neis, Stefan; Theobald, Patrick; Weber, Damian) Sieving methods for class group computation. **2000a:11177**

Buell, Duncan A. The last exhaustive computation of class groups of complex quadratic number fields. (English summary) **2000d:11156**

Button, J. O. The uniqueness of the prime Markoff numbers. (English summary) **2000c:11043**

Chakraborty, Kalyan (*with* Kulkarni, Manisha V.) Solutions of cubic equations in quadratic fields. (English summary) **2000b:11062**

Daniel, Stephan (*with* Fouvry, Étienne) On real quadratic fields with odd class number. **2000a:11127**

Dubois, Eugène (*with* Farhane, A.) Fractions continues paramétrées et critère de Rabinowitsch. (English summary) [Parametrized continued fractions and the Rabinowitsch criterion] **2000e:11139**

Farhane, A. *see* **Dubois, Eugène, 2000e:11139**

Farkas, Gábor Digital expansions in real algebraic quadratic fields. (English summary) **2000c:11172**

Fouvry, Étienne Sur les propriétés de divisibilité des nombres de classes des corps quadratiques. (English and French summaries) [On divisibility properties of class numbers of quadratic fields] **2000f:11145**

— *see also* **Daniel, Stephan, 2000a:11127**

Fox, Glenn J. (*with* Urbanowicz, Jerzy; Williams, Kenneth S.) Gauss' congruence from Dirichlet's class number formula and generalizations. (English summary) **2000f:11146**

Hashimoto, Ryūta Explicit representations of classes of some binary quadratic forms of discriminants $4q^2 + 1$. **2000b:11037**

Holden, Joshua Irregularity of prime numbers over real quadratic fields. (English summary) **2000m:11113**

Höpner, Peter ★ Perioden halbregelmäßiger Kettenbrüche und Idealperioden in reell-quadratischen Ordnungen. (German) [Periods of semiregular continued fractions and ideal periods in real-quadratic orders] **2000a:11166**

Hudson, Richard H. (*with* Judge, Charles J.; Teker, Turker) Class number formulae for imaginary quadratic number fields $\mathbf{Q}(\sqrt{-n})$ with n squarefree and $n \equiv 1 \pmod 4$ or $n \equiv 2 \pmod 4$. **2000m:11109**

Husnine, S. M. *see* **Kousar, Imrana et al., 2000k:11059**

Ichimura, Humio A note on quadratic fields in which a fixed prime number splits completely. II. **2000i:11168**

— A note on quadratic fields in which a fixed prime number splits completely. III. **2000m:11110**

İşcan, Hülya *see* **Karaali, Fitnat, 2000a:11159**

Jacobson, Michael J., Jr. *see* **Buchmann, Johannes et al., 2000a:11177**

Jiao, Rong Zheng The zeta-functions of real quadratic fields with class number 1. II. (Chinese. English and Chinese summaries) **2000b:11127**

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— (*with* Levesque, Claude; Nakahara, Toru) On the units and the class numbers of certain composita of two quadratic fields. **2000h:11113**

Kawamoto, Fuminori On quadratic subextensions of the mod p ray class field of quadratic fields. (Japanese) (*see* **2000k:11003**)

Kim, Byeong Moon Finiteness of real quadratic fields which admit positive integral diagonal septanary universal forms. (English summary) **2000h:11032**

Koike, Masanobu On the isomorphism classes of Iwasawa modules associated to imaginary quadratic fields with $\lambda = 2$. (English summary) **2000f:11144**

Kousar, Imrana (*with* Husnine, S. M.; Majeed, Abdul) A classification of the elements of $\mathbf{Q}^*(\sqrt{p})$ and a partition of $\mathbf{Q}^*(\sqrt{p})$ under the action of modular group $\mathrm{PSL}(2, \mathbf{Z})$. (English summary) **2000k:11059**

Kramer, Jürg Unitary double cosets for GL_2. **2000c:11081**

Kulkarni, Manisha V. *see* **Chakraborty, Kalyan, 2000b:11062**

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Maire, Christian Une remarque sur la capitulation du groupe des classes au sens restreint. (French summary) [A remark concerning the capitulation of the class group in the narrow sense] **2000j:11170**

Majeed, Abdul *see* **Kousar, Imrana et al., 2000k:11059**

Masima, Kazusige The distribution of units in residue fields of real quadratic fields and Artin's conjecture. (Japanese) **2000f:11149**

Mollin, Richard A. Continued fraction gems. (English summary) **2000m:11008**

— *see also* **Louboutin, Stéphane, 2000f:11138**

Murty, Maruti Ram Exponents of class groups of quadratic fields. (English summary) **2000b:11123**

Nakahara, Toru *see* **Katayama, Shin-ichi et al., 2000h:11113**

Neis, Stefan *see* **Buchmann, Johannes et al., 2000a:11177**

Ono, Ken Indivisibility of class numbers of real quadratic fields. (English summary) **2000i:11169**

Parry, Charles J. *see* **Benjamin, Elliot, 2000b:11125**

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Schinzel, Andrzej (*with* Urbanowicz, Jerzy; van Wamelen, Paul) Class numbers and short sums of Kronecker symbols. **2000g:11103**

Sun, Ai Ling Solvability of the equation $ax^2 + by^2 + cz^2 = 0$ in quadratic fields. (Chinese. English and Chinese summaries) **2000g:11018**

Szabó, Sándor The Diophantine equation $x^4 + y^4 = z^2$ in $\mathbf{Q}(\sqrt{-2})$. (English summary) **2000i:11046**

Taya, Hisao Iwasawa invariants and class numbers of quadratic fields for the prime 3. (English summary) **2000j:11162**

Teker, Turker *see* **Hudson, Richard H. et al., 2000m:11109**

Theobald, Patrick *see* **Buchmann, Johannes et al., 2000a:11177**

Urbanowicz, Jerzy *see* **Fox, Glenn J. et al., 2000f:11146** *and* **Schinzel, Andrzej et al., 2000g:11103**

Vladimirov, V. S. On ramified characters of the idèle group of quadratic fields of class number one. (Russian. Russian summary) **2000h:11122**

van Wamelen, Paul *see* **Schinzel, Andrzej et al., 2000g:11103**

Weber, Damian *see* **Buchmann, Johannes et al., 2000a:11177**

Williams, Kenneth S. *see* **Fox, Glenn J. et al., 2000f:11146**

11R16 Cubic and quartic extensions

Azizi, Abdelmalek Sur le 2-groupe de classes d'idéaux de $\mathbf{Q}(\sqrt{d}, i)$. (English summary) [On the 2-group of ideal classes of $\mathbf{Q}(\sqrt{d}, i)$] **2000d:11131**

Byeon, Dongho Class number 3 problem for the simplest cubic fields. (English summary) **2000j:11158**

Kable, Anthony C. Power bases in dihedral quartic fields. (English summary) **2000a:11153**

Katayama, Shin-ichi (*with* Levesque, Claude; Nakahara, Toru) On the units and the class numbers of certain composita of two quadratic fields. **2000h:11113**

Kochetkov, Yu. Yu. On cubic fields. (Russian) (*see* **2000g:00038**)

Levesque, Claude *see* **Katayama, Shin-ichi et al., 2000h:11113**

Nakahara, Toru *see* **Katayama, Shin-ichi et al., 2000h:11113**

Nassirou, Lo Étude du niveau de certains corps. (English and French summaries) [Study of the level of certain fields] **2000e:11136**

Spearman, Blair K. (*with* Williams, Kenneth S.) An explicit integral basis for a pure cubic field. (English summary) **2000a:11154**

— (*with* Williams, Kenneth S.) Cyclic quartic fields and F_{20} quintics. (English summary) **2000b:11118**

— (*with* Williams, Kenneth S.) De Moivre's quintic and a theorem of Galois. (English summary) **2000b:11119**

Williams, Kenneth S. *see* **Spearman, Blair K., 2000a:11154;2000b:11118** *and* **2000b:11119**

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Alaca, Şaban p-integral bases of algebraic number fields. (English summary) **2000m:11105**

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Buchmann, Johannes (*with* Jacobson, Michael J., Jr.; Neis, Stefan; Theobald, Patrick; Weber, Damian) Sieving methods for class group computation. **2000a:11177**

Grundman, H. G. Explicit resolutions of cubic cusp singularities. (English summary) **2000i:11069**

Jacobson, Michael J., Jr. *see* **Buchmann, Johannes et al., 2000a:11177**

Katayama, Shin-ichi The *abc* conjecture and the fundamental system of units of certain real bicyclic biquadratic fields. **2000k:11121**

Neis, Stefan *see* **Buchmann, Johannes et al., 2000a:11177**

Spearman, Blair K. (*with* Williams, Kenneth S.) Cyclic quartic subfields of the splitting field of a quintic trinomial $x^5 + ax + b$ with Galois group F_{20}. (English summary) **2000d:11137**

Theobald, Patrick *see* **Buchmann, Johannes et al., 2000a:11177**

Togbé, Alain On the solutions of a family of quartic Thue equations. (English summary) **2000i:11047**

Weber, Damian *see* **Buchmann, Johannes et al., 2000a:11177**

Williams, Kenneth S. *see* **Spearman, Blair K., 2000d:11137**

Wong, Siman Automorphic forms on GL(2) and the rank of class groups. (English summary) **2000g:11042**

11R18 Cyclotomic extensions

Agoh, Takashi Stickelberger subideals related to Kummer type congruences. (English summary) **2000c:11180**
Das, Pinaki Algebraic gamma monomials and double coverings of cyclotomic fields. (English summary) **2000m:11107**
Havelek, Radim *see* **Pomp, Marek, 2000i:11165**
Kim, Jae Moon Circular units in the $\mathbf{Z}_p$-extensions of real abelian fields of prime conductor. (English summary) **2000f:11141**
Kolyvagin, V. A. The Fermat equations over cyclotomic fields. (Russian) **2000k:11118**
Pomp, Marek (*with* Havelek, Radim) On representation of cyclotomic fields $\mathbf{Q}(\zeta_{pq})$. (English summary) **2000i:11165**
Schmidt, Bernhard Cyclotomic integers of prescribed absolute value and the class group. (English summary) **2000a:11155**
Thaine, F. On the coefficients of Jacobi sums in prime cyclotomic fields. (English summary) **2000c:11181**
Yoshino, Ken-ichi A condition for divisibility of the class number of real pth cyclotomic field by an odd prime distinct from p. **2000h:11114**

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Anuradha, N. *see* **Katre, S. A., 2000b:11135**
Borwein, P. B. (*with* Choi, Kwok-Kwong Stephen) On cyclotomic polynomials with ± 1 coefficients. (English summary) **2000m:11121**
Choi, Kwok-Kwong Stephen *see* **Borwein, P. B., 2000m:11121**
Greither, Cornelius Improving Ramachandra's and Levesque's unit index. (English summary) **2000e:11138**
Han, Qing[2] *see* **Sun, Qi et al., 2000j:11011**
Hazama, Fumio Determinantal formula for the special values of the Dedekind zeta function of the cyclotomic field. (English summary) **2000b:11126**
Hong, Shao Fang *see* **Sun, Qi et al., 2000j:11011**
Ji, Qing Zhong (*with* Qin, Hou Rong) On the relative class number of a cyclotomic field. (Chinese. English and Chinese summaries)
Kang, Ming-chang A note on cyclotomic polynomials. (English summary) **2000i:11184**
Katre, S. A. (*with* Anuradha, N.) Explicit evaluation of cyclotomic numbers of prime order. (English summary) **2000b:11135**
Koshiba, Yôichi On the calculations of the coefficients of the cyclotomic polynomials. (English summary) **2000g:11126**
Morita, Jun (*with* Sakamoto, Kuniko) Octagonal quasicrystals and a formula for shelling. (English summary) **2000g:52021**
— (*with* Sakamoto, Kuniko) Shell structure of dodecagonal quasicrystals associated with root system F_4 and cyclotomic field $\mathbf{Q}(\zeta_{12})$. (English summary) **2000j:52027**
Østvær, Paul Arne *see* **Rognes, John, 2000k:11131**
Qin, Hou Rong *see* **Ji, Qing Zhong**
Ren, De Bin *see* **Sun, Qi et al., 2000j:11011**
Rognes, John (*with* Østvær, Paul Arne) Two-primary algebraic K-theory of two-regular number fields. (English summary) **2000k:11131**
Sakamoto, Kuniko *see* **Morita, Jun, 2000g:52021** *and* **2000j:52027**
Sitaraman, Sankar On a Fermat-type Diophantine equation. (English summary) **2000k:11045**
Sun, Qi (*with* Ren, De Bin; Hong, Shao Fang; Yuan, Ping Zhi; Han, Qing[2]) A new class of Aurifeuillian factorizations of $M^n \pm 1$. (English summary) **2000j:11011**
Taya, Hisao On p-adic L-functions and $\mathbf{Z}_p$-extensions of certain real abelian number fields. (English summary) **2000j:11163**
— On p-adic zeta functions and $\mathbf{Z}_p$-extensions of certain totally real number fields. (English summary) **2000b:11121**
Yuan, Ping Zhi *see* **Sun, Qi et al., 2000j:11011**

11R20 Other abelian and metabelian extensions

Carter, James Edgar A generalization of a result on integers in metacyclic extensions. (English summary) **2000f:11142**
Charkani, M. E. On Leopoldt's index and a "special" class number of real cyclic extensions. (English summary) **2000h:11115**
Miyake, Katsuya Linear fractional transformations and cyclic polynomials. **2000j:11159**
Zhang, Xian Ke Structure and prime decomposition law and relative extensions of abelian fields with prime power degree. (English summary) **2000i:11166**

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Azizi, Abdelmalek Unités de certains corps de nombres imaginaires et abéliens sur **Q**. (English and French summaries) [Units of certain imaginary abelian number fields over **Q**] **2000k:11120**
Chang, Ku-Young (*with* Kwon, Soun-Hi) Class numbers of imaginary abelian number fields. (English summary) **2000m:11108**
Doud, Darrin S_4 and $\tilde{S}_4$ extensions of **Q** ramified at only one prime. (English summary) **2000b:11060**
Ferrero, Miguel A. (*with* Paques, Antonio) On dihedral extensions of commutative rings. (English summary) **2000h:13004**
Kwon, Soun-Hi *see* **Chang, Ku-Young, 2000m:11108**
Ledet, Arne Dihedral extensions in characteristic 0. (English and French summaries) **2000e:12013**
Liu, Tong Congruences for the class numbers of real cyclic sextic number fields. (English summary) **2000j:11166**
Louboutin, Stéphane Computation of relative class numbers of imaginary abelian number fields. (English summary) **2000c:11207**
Paques, Antonio *see* **Ferrero, Miguel A., 2000h:13004**

11R21 Other number fields

Cohen, Henri (*with* Diaz y Diaz, Francisco; Olivier, Michel) Imprimitive octic fields with small discriminants. (English summary) **2000k:11119**
Daberkow, Mario *see* **Ford, David et al., 2000c:11182**
Diaz y Diaz, Francisco *see* **Cohen, Henri et al., 2000k:11119**
Dvořák, Antonín (*with* Jedelský, David; Kostra, Juraj) The fields of degree seven over rationals with a normal basis generated by a unit. (English summary) **2000h:11116**
Ford, David (*with* Pohst, Michael; Daberkow, Mario; Haddad, Nasser) The S_5 extensions of degree 6 with minimum discriminant. (English summary) **2000c:11182**
Haddad, Nasser *see* **Ford, David et al., 2000c:11182**
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Kostra, Juraj *see* **Dvořák, Antonín et al., 2000h:11116**
Kwon, Soun-Hi *see* **Yang, Hee-Sun, 2000h:11117**
Lefeuvre, Yann *see* **Louboutin, Stéphane et al., 2000g:11101**
Louboutin, Stéphane (*with* Park, Young-Ho; Lefeuvre, Yann) Construction of the real dihedral number fields of degree $2p$. Applications. **2000g:11101**
Maire, Christian On infinite unramified extensions. (English summary) **2000j:11160**
Olivier, Michel *see* **Cohen, Henri et al., 2000k:11119**
Park, Young-Ho *see* **Louboutin, Stéphane et al., 2000g:11101**
Pohst, Michael *see* **Ford, David et al., 2000c:11182**
Yang, Hee-Sun (*with* Kwon, Soun-Hi) The non-normal quartic CM-fields and the octic dihedral CM-fields with relative class number two. (English summary) **2000h:11117**

Items with secondary classifications in 11R21

Gaál, István (*with* Győry, Kálmán) Index form equations in quintic fields. (English summary) **2000e:11035**
Győry, Kálmán *see* **Gaál, István, 2000e:11035**
Halter-Koch, F. (*with* Lettl, Günter; Pethő, Attila; Tichy, Robert F.) Thue equations associated with Ankeny-Brauer-Chowla number fields. (English summary) **2000i:11052**
Lettl, Günter *see* **Halter-Koch, F. et al., 2000i:11052**
Louboutin, Stéphane The class number one problem for the dihedral and dicyclic CM-fields. (English summary) **2000e:11140**
Pethő, Attila *see* **Halter-Koch, F. et al., 2000i:11052**
Simon, Denis Construction de polynômes de petits discriminants. (English and French summaries) [Construction of polynomials having small discriminants] **2000f:11147**
Spearman, Blair K. (*with* Williams, Kenneth S.) Cyclic quartic subfields of the splitting field of a quintic trinomial $x^5 + ax + b$ with Galois group F_{20}. (English summary) **2000d:11137**
Tichy, Robert F. *see* **Halter-Koch, F. et al., 2000i:11052**
Williams, Kenneth S. *see* **Spearman, Blair K., 2000d:11137**
Wingberg, Kay Galois groups of local and global type. **2000k:11127**

11R23 Iwasawa theory

Byeon, Dongho A note on basic Iwasawa λ-invariants of imaginary quadratic fields and congruence of modular forms. **2000f:11143**
Fukuda, Takashi On the vanishing of Iwasawa invariants of certain cyclic extensions of **Q** with prime degree. II. **2000a:11156**
Horie, Kuniaki (*with* Kimura, Iwao) On quadratic extensions of number fields and Iwasawa invariants for basic $\mathbf{Z}_3$-extensions. (English summary) **2000a:11157**
— On Iwasawa invariants [translation of Sūgaku **48** (1996), no. 4, 358–371; MR 99b:11119]. (*see* **2000g:00095**)
Jaulent, Jean-François (*with* Soriano-Gafiuk, Florence) Sur les tours localement cyclotomiques. (English summary) [On locally cyclotomic towers] **2000d:11132**
Kimura, Iwao *see* **Horie, Kuniaki, 2000a:11157**
Koike, Masanobu On the isomorphism classes of Iwasawa modules associated to imaginary quadratic fields with $\lambda = 2$. (English summary) **2000f:11144**
Oh, Jangheon On the λ-invariants of totally real fields. **2000j:11161**
— On the Iwasawa λ-invariants of imaginary quadratic fields. (English summary) **2000e:11137**
Soriano-Gafiuk, Florence *see* **Jaulent, Jean-François, 2000d:11132**
Sumida, Hiroki Initial layers of $\mathbf{Z}_p$-extensions and Greenberg's conjecture. (English summary) **2000b:11120**
Taya, Hisao On p-adic L-functions and $\mathbf{Z}_p$-extensions of certain real abelian number fields. (English summary) **2000j:11163**
— On p-adic zeta functions and $\mathbf{Z}_p$-extensions of certain totally real number fields. (English summary) **2000b:11121**
— Iwasawa invariants and class numbers of quadratic fields for the prime 3. (English summary) **2000j:11162**
Yamamoto, Gen On the vanishing of Iwasawa invariants of absolutely abelian p-extensions. (English summary) (*see* **2000k:11003**)

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Böckle, Gebhard (*with* Mézard, Ariane) The prime-to-adjoint principle and unobstructed Galois deformations in the Borel case. (English summary) **2000h:11120**
Byeon, Dongho Class numbers and Iwasawa invariants of certain totally real number fields. (English summary) **2000j:11164**
Colmez, Pierre Théorie d'Iwasawa des représentations de de Rham d'un corps local. [Iwasawa theory of de Rham representations of a local field] **2000f:11077**
— Représentations p-adiques d'un corps local. (English summary) [p-adic representations of a local field] **2000a:11170**
Fujiwara, Kazuhiro Modular varieties and Iwasawa theory. (Japanese) **2000c:11094**
Guo, Li[1] (*with* Shu, Linghsueh) Class numbers of cyclotomic function fields. (English summary) **2000a:11167**
Hachimori, Yoshitaka (*with* Matsuno, Kazuo) Kida's formula in Iwasawa's theory of elliptic curves. (Japanese) **2000g:11046**
— (*with* Matsuno, Kazuo) An analogue of Kida's formula for the Selmer groups of elliptic curves. (English summary) **2000c:11086**
— (*with* Matsuno, Kazuo) On finite Λ-submodules of Selmer groups of elliptic curves. (English summary) **2000m:11046**

Hida, Haruzo On Selmer groups of adjoint modular Galois representations. **2000b:11061**
Kato, Kazuya Euler systems, Iwasawa theory, and Selmer groups. **2000k:11076**
Kim, Jae Moon On the $\mathbf{Z}_p$-extensions over $\mathbf{Q}(\sqrt{m})$. (English summary) **2000k:11123**
— Circular units in the $\mathbf{Z}_p$-extensions of real abelian fields of prime conductor. (English summary) **2000f:11141**
Kramer, Kenneth Elliptic curves with non-trivial 2-adic Iwasawa μ-invariant. **2000i:11087**
Kurihara, Masato On the ideal class groups of the maximal real subfields of number fields with all roots of unity. (English summary) **2000a:11162**
Matsuno, Kazuo *see* **Hachimori, Yoshitaka**, **2000c:11086**;**2000g:11046** *and* **2000m:11046**
Mézard, Ariane *see* **Böckle, Gebhard**, **2000h:11120**
Neukirch, Jürgen (*with* Schmidt, Alexander; Wingberg, Kay) ★ Cohomology of number fields. **2000j:11168**
Ono, Ken Indivisibility of class numbers of real quadratic fields. (English summary) **2000i:11169**
Perrin-Riou, Bernadette ★ p-adic L-functions and p-adic representations. (English summary) **2000k:11077**
Schmidt, Alexander *see* **Neukirch, Jürgen et al.**, **2000j:11168**
(Schneps, Leila) *see* **Perrin-Riou, Bernadette**, **2000k:11077**
Shu, Linghsueh *see* **Guo, Li[1]**, **2000a:11167**
Taguchi, Yuichiro Introduction to the Fontaine-Mazur conjecture. (Japanese) (*see* **2000k:11003**)
Tsuji, Takae Semi-local units modulo cyclotomic units. (English summary) **2000f:11148**
Wingberg, Kay *see* **Neukirch, Jürgen et al.**, **2000j:11168**

11R27 Units and factorization

Azizi, Abdelmalek Unités de certains corps de nombres imaginaires et abéliens sur $\mathbf{Q}$. (English and French summaries) [Units of certain imaginary abelian number fields over $\mathbf{Q}$] **2000k:11120**
Greither, Cornelius Improving Ramachandra's and Levesque's unit index. (English summary) **2000e:11138**
Katayama, Shin-ichi The *abc* conjecture and the fundamental system of units of certain real bicyclic biquadratic fields. **2000k:11121**
Lorenz, Falko Some remarks on Leopoldt's conjecture. (English summary) **2000a:11158**
Oort, Frans Units in number fields and in function fields. **2000d:11133**

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Del Corso, Ilaria (*with* Dvornicich, Roberto) Uniformity over primes of unramified splittings. **2000a:11165**
— (*with* Dvornicich, Roberto) Uniformity over primes of tamely ramified splittings. (English summary) **2000j:11172**
Dvornicich, Roberto *see* **Del Corso, Ilaria**, **2000a:11165** *and* **2000j:11172**
Fukuda, Takashi (*with* Komatsu, Keiichi) On a unit group generated by special values of Siegel modular functions. (English summary) **2000j:11089**
Geroldinger, Alfred A structure theorem for sets of lengths. **2000a:13002**
Grant, David R. Units from 5-torsion on the Jacobian of $y^2 = x^5 + 1/4$ and the conjectures of Stark and Rubin. **2000d:11141**
Gruenberg, K. W. (*with* Ritter, Jürgen; Weiss, Alfred R.) A local approach to Chinburg's root number conjecture. **2000c:11184**
Hida, Haruzo Global quadratic units and Hecke algebras. (English summary) **2000b:11048**
Kainrath, Florian Factorization in Krull monoids with infinite class group. (English summary) **2000c:20088**
Katayama, Shin-ichi (*with* Levesque, Claude; Nakahara, Toru) On the units and the class numbers of certain composita of two quadratic fields. **2000h:11113**
Komatsu, Keiichi *see* **Fukuda, Takashi**, **2000j:11089**
Levesque, Claude *see* **Katayama, Shin-ichi et al.**, **2000h:11113**
Nakahara, Toru *see* **Katayama, Shin-ichi et al.**, **2000h:11113**
Popescu, Cristian D. On a refined Stark conjecture for function fields. (English summary) **2000m:11115**
— Gras-type conjectures for function fields. (English summary) **2000m:11116**
Ritter, Jürgen L-values at zero and the Galois structure of global units. **2000e:11142**
— *see also* **Gruenberg, K. W. et al.**, **2000c:11184**
Scheidler, Renate (*with* Stein, Andreas) Voronoi's algorithm in purely cubic congruence function fields of unit rank 1. (English summary) **2000j:11177**
Shioda, Tetsuji The splitting field of Mordell-Weil lattices. (English summary) **2000h:11059**
Stein, Andreas *see* **Scheidler, Renate**, **2000j:11177**
Weiss, Alfred R. *see* **Gruenberg, K. W. et al.**, **2000c:11184**
Yoshino, Ken-ichi A condition for divisibility of the class number of real pth cyclotomic field by an odd prime distinct from p. **2000h:11114**

11R29 Class numbers, class groups, discriminants

Azizi, Abdelmalek Capitulation of the 2-ideal classes of $\mathbf{Q}(\sqrt{p_1p_2}, i)$ where p_1 and p_2 are primes such that $p_1 \equiv 1 \pmod 8$, $p_2 \equiv 5 \pmod 8$ and $(\frac{p_1}{p_2}) = -1$. (English summary) **2000h:11118**
Belabas, Karim On the mean 3-rank of quadratic fields. (English summary) **2000g:11102**
— (*with* Fouvry, Étienne) Sur le 3-rang des corps quadratiques de discriminant premier ou presque premier. [On the 3-rank of quadratic fields with prime or almost prime discriminant] **2000i:11167**
Benjamin, Elliot Lower bounds on the 2-class number of the Hilbert 2-class field of quadratic number fields with 2-class number greater than or equal to 16. (English summary) **2000b:11122**
Byeon, Dongho Class numbers and Iwasawa invariants of certain totally real number fields. (English summary) **2000j:11164**
Chang, Ku-Young (*with* Kwon, Soun-Hi) Class numbers of imaginary abelian number fields. (English summary) **2000m:11108**
Cohen, Henri (*with* Diaz y Diaz, Francisco; Olivier, Michel) Computation of relative quadratic class groups. (English summary) **2000j:11165**
Diaz y Diaz, Francisco (*with* Soriano-Gafiuk, Florence) Approche algorithmique du groupe des classes logarithmiques. (English summary) [Algorithmic approach to the logarithmic class group] **2000k:11122**
— *see also* **Cohen, Henri et al.**, **2000j:11165**
Dubois, Eugène (*with* Farhane, A.) Fractions continues paramétrées et critère de Rabinowitsch. (English summary) [Parametrized continued fractions and the Rabinowitsch criterion] **2000e:11139**
Farhane, A. *see* **Dubois, Eugène**, **2000e:11139**
Fouvry, Étienne Sur les propriétés de divisibilité des nombres de classes des corps quadratiques. (English and French summaries) [On divisibility properties of class numbers of quadratic fields] **2000f:11145**
— *see also* **Belabas, Karim**, **2000i:11167**
Fox, Glenn J. (*with* Urbanowicz, Jerzy; Williams, Kenneth S.) Gauss' congruence from Dirichlet's class number formula and generalizations. (English summary) **2000f:11146**
Hudson, Richard H. (*with* Judge, Charles J.; Teker, Turker) Class number formulae for imaginary quadratic number fields $\mathbf{Q}(\sqrt{-n})$ with n squarefree and $n \equiv 1 \pmod 4$ or $n \equiv 2 \pmod 4$. **2000m:11109**
Ichimura, Humio A note on quadratic fields in which a fixed prime number splits completely. II. **2000i:11168**
— A note on quadratic fields in which a fixed prime number splits completely. III. **2000m:11110**
İşcan, Hülya *see* **Karaali, Fitnat**, **2000a:11159**
Jacobson, Michael J., Jr. Experimental results on class groups of real quadratic fields (extended abstract). **2000h:11119**
Ji, Qing Zhong (*with* Qin, Hou Rong) On the relative class number of a cyclotomic field. (Chinese. English and Chinese summaries)
Judge, Charles J. *see* **Hudson, Richard H. et al.**, **2000m:11109**
Karaali, Fitnat (*with* İşcan, Hülya) Class number two problem for real quadratic fields with fundamental units with the positive norm. **2000a:11159**
Katayama, Shin-ichi Real quadratic fields of Richaud-Degert type and related topics. **2000d:11134**
Kawamoto, Fuminori On quadratic subextensions of the mod p ray class field of quadratic fields. (Japanese) (*see* **2000k:11003**)
Kim, Jae Moon On the $\mathbf{Z}_p$-extensions over $\mathbf{Q}(\sqrt{m})$. (English summary) **2000k:11123**
Kwon, Soun-Hi *see* **Chang, Ku-Young**, **2000m:11108**
Liu, Tong Congruences for the class numbers of real cyclic sextic number fields. (English summary) **2000j:11166**
Louboutin, Stéphane The class number one problem for the dihedral and dicyclic CM-fields. (English summary) **2000e:11140**
Murty, Maruti Ram Exponents of class groups of quadratic fields. (English summary) **2000b:11123**
Nomura, Akito On embedding problems with restricted ramifications. (English summary) **2000k:11124**
Okazaki, Ryotaro Non-normal class number one problem and the least prime power-residue. (English summary) **2000k:11125**
Olivier, Michel *see* **Cohen, Henri et al.**, **2000j:11165**
Ono, Ken Indivisibility of class numbers of real quadratic fields. (English summary) **2000i:11169**
Perret, Marc On the ideal class group problem for global fields. (English summary) **2000d:11135**
Qin, Hou Rong *see* **Ji, Qing Zhong**
Schinzel, Andrzej (*with* Urbanowicz, Jerzy; van Wamelen, Paul) Class numbers and short sums of Kronecker symbols. **2000g:11103**
Simon, Denis Construction de polynômes de petits discriminants. (English and French summaries) [Construction of polynomials having small discriminants] **2000f:11147**
Soriano-Gafiuk, Florence Classes logarithmiques generalisées ambiges. (English, French and German summaries) [Generalized ambiguous logarithmic classes] **2000d:11136**
— *see also* **Diaz y Diaz, Francisco**, **2000k:11122**
Teker, Turker *see* **Hudson, Richard H. et al.**, **2000m:11109**
Urbanowicz, Jerzy *see* **Fox, Glenn J. et al.**, **2000f:11146** *and* **Schinzel, Andrzej et al.**, **2000g:11103**
van Wamelen, Paul *see* **Schinzel, Andrzej et al.**, **2000g:11103**
Williams, Kenneth S. *see* **Fox, Glenn J. et al.**, **2000f:11146**
Wong, Siman On the rank of ideal class groups. (English summary) **2000k:11126**
Yamamura, Ken A survey of small class number problems for CM-fields and related problems. (Japanese) (*see* **2000j:11002**)

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Alaca, Şaban p-integral bases of algebraic number fields. (English summary) **2000m:11105**
Aubry, Yves (*with* Le Brigand, Dominique) Imaginary bicyclic biquadratic function fields in characteristic two. (English summary) **2000c:11188**
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11R32 Galois theory

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11R34 Galois cohomology [see also 12Gxx, 16H05, 19A31]

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11R37 Class field theory

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11R39 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E55]

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11R44 Distribution of prime ideals [see also 11N05]

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11R45 Density theorems

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Gasbarri, Carlo On the number of points of bounded height on arithmetic projective spaces. (English summary) **2000f:14039**
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11R47 Other analytic theory [see also 11Nxx]

Friedman, Eduardo (*with* Skoruppa, Nils-Peter) Relative regulators of number fields. **2000c:11187**
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11R52 Quaternion and other division algebras: arithmetic, zeta functions

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Friedman, Eduardo *see* **Chinburg, Ted, 2000j:11173**

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11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

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11R56 Adèle rings and groups

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11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

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Aubry, Yves (*with* Le Brigand, Dominique) Imaginary bicyclic biquadratic function fields in characteristic two. (English summary) **2000c:11188**
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— (*with* Stein, Andreas) Voronoi's algorithm in purely cubic congruence function fields of unit rank 1. (English summary) **2000j:11177**
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11R60 Cyclotomic function fields (class groups, Bernoulli objects, etc.)

Anglès, Bruno On explicit reciprocity laws for the local Carlitz-Kummer symbols. (English summary) **2000f:11153**
— On the orthogonal of cyclotomic units in positive characteristic. **2000i:11178**

Items with secondary classifications in 11R60

Yin, Linsheng Distributions on a global field. **2000j:11178**

11R65 Class groups and Picard groups of orders

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11R70 K-theory of global fields [see also 19Fxx]

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Kings, Guido *see* **Huber, Annette, 2000b:11067** *and* **2000b:11068**
(Kolster, Manfred) *see* **Rognes, John, 2000g:19001**
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11R80 Totally real and totally positive fields [see also 12J15]

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Sands, Jonathan W. Base change for higher Stickelberger ideals. (English summary) **2000b:11130**
Solomon, David The Shintani cocycle. II. Partial ζ-functions, cohomologous cocycles and p-adic interpolation. (English summary) **2000c:11186**

11Sxx Algebraic number theory: local and p-adic fields

11S05 Polynomials

Voloch, José Felipe Plane curves and p-adic roots of unity. (English summary) **2000i:11179**

Items with secondary classifications in 11S05

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Del Corso, Ilaria (*with* Dvornicich, Roberto) Uniformity over primes of tamely ramified splittings. (English summary) **2000j:11172**
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11S15 Ramification and extension theory

Abrashkin, V. A. A ramification filtration of the Galois group of a local field. II. (Russian) **2000m:11117a**
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— A group-theoretic property of ramification filtration. (Russian. Russian summary) **2000f:11155**
Bondarko, M. (*with* Laï, K. F.; Vostokov, S. V.) Galois structure for abelian p-extensions of Dedekind domains. **2000j:11180**
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Colmez, Pierre Représentations p-adiques d'un corps local. (English summary) [p-adic representations of a local field] **2000a:11170**
— *see also* **Cherbonnier, F., 2000d:11146**
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Laubie, François Ramification de certaines extensions de Lie p-adiques. (English summary) [Ramification of certain p-adic Lie extensions] **2000k:11132**
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Castro, Francis N. (*with* Moreno, Carlos Julio) Mixed exponential sums over finite fields. (English summary) **2000m:11070**
(Harder, G.) *see* **Neukirch, Jürgen, 2000m:11104**
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Moreno, Carlos Julio *see* **Castro, Francis N., 2000m:11070**
Nassirou, Lo Étude du niveau de certains corps. (English and French summaries) [Study of the level of certain fields] **2000e:11136**
Neukirch, Jürgen ★ Algebraic number theory. **2000m:11104**
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11S20 Galois theory

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Byott, Nigel P. Integral Galois module structure of some Lubin-Tate extensions. (English summary) **2000f:11156**
Kuz'min, L. V. A new proof of some duality theorem on the l-adic logarithms of local units. **2000k:11133**
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Conrad, Brian Ramified deformation problems. **2000h:11055**
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Neukirch, Jürgen (*with* Schmidt, Alexander; Wingberg, Kay) ★ Cohomology of number fields. **2000j:11168**
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Volf, Aurelian Claudiu Sur le comportement, par torsion, des facteurs ϵ. (English summary) [Torsion behavior of ϵ-factors] **2000i:11180**
Wingberg, Kay Galois groups of local and global type. **2000k:11127**
— *see also* **Neukirch, Jürgen et al., 2000j:11168**

11S23 Integral representations

Breuil, Christophe Une application de corps des normes. (English and French summaries) [An application of the norm field] **2000f:11157**
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11S25 Galois cohomology [see also 12Gxx, 16H05]

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Herr, Laurent Sur la cohomologie galoisienne des corps p-adiques. (English and French summaries) [On the Galois cohomology of p-adic fields] **2000m:11118**

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Böckle, Gebhard A local-to-global principle for deformations of Galois representations. (English summary) **2000b:11059**
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Colmez, Pierre Théorie d'Iwasawa des représentations de de Rham d'un corps local. [Iwasawa theory of de Rham representations of a local field] **2000f:11077**
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— *see also* **Cherbonnier, F., 2000d:11146**
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Sadi, Bounab Descente effective du corps de définition des revêtements galoisiens. (English and French summaries) [Effective descent of the field of definition of Galois coverings] **2000c:14030**
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Scholl, A. J. An introduction to Kato's Euler systems. **2000g:11057**
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11S31 Class field theory; p-adic formal groups [see also 14L05]

Guo, Li[1] Hecke characters and formal group characters. (English summary) **2000c:11192**
Laï, K. F. (*with* Vostokov, S. V.) Explicit pairing and class field theory of multidimensional complete fields. (Russian. Russian summary) **2000k:11135**
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11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Bushnell, Colin J. (*with* Henniart, Guy) Local tame lifting for GL(n). II. Wildly ramified supercuspidals. (English and French summaries) **2000d:11147**
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11S40 Zeta functions and L-functions [see also 11M41, 19F27]

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Laĭ, K. F. (*with* Vostokov, S. V.) Explicit pairing and class field theory of multidimensional complete fields. (Russian. Russian summary) **2000k:11135**

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11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

Dan, Nicusor Fonctions zêta d'Igusa et fonctions hypergéométriques. (French summary) [Igusa zeta functions and hypergeometric functions] **2000i:11181**

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11S85 Other nonanalytic theory

Bekker, Boris M. (*with* Vostokov, S. V.; Ionin, Yury J.) 2-adic numbers [Kvant 1979, no. 2, 26–31]. (*see* **2000m:11003**)

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11S90 Prehomogeneous vector spaces

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Sato, Fumihiro b-functions of prehomogeneous vector spaces attached to flag manifolds of the general linear group. **2000i:11061**

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11S99 None of the above, but in this section

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11Txx Finite fields and commutative rings (number-theoretic aspects)

11T06 Polynomials

Acosta-de-Orozco, Maria T. (*with* Gomez-Calderon, Javier) The second-order factorable core of polynomials over finite fields. (English summary) **2000a:11172**

Bhargava, Manjul (*with* Zieve, Michael E.) Factoring Dickson polynomials over finite fields. (English summary) **2000d:11151**

Car, Mireille Distribution des polynômes irréductibles dans $\mathbf{F}_q[T]$. [Distribution of irreducible polynomials in $\mathbf{F}_q[T]$] **2000f:11160**

Chou, Wun-Seng (*with* Cohen, Stephen D.) Polynomial distribution and sequences of irreducible polynomials over finite fields. (English summary) **2000a:11173**

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Garcia, Arnaldo (*with* Stichtenoth, Henning) A class of polynomials over finite fields. (English summary) **2000g:11115**

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Heath, Lenwood S. (*with* Loehr, Nicholas A.) New algorithms for generating Conway polynomials over finite fields. (English summary) **2000j:11187**

Henderson, Marie (*with* Matthews, Rex) Dickson polynomials of the second kind which are permutation polynomials over a finite field. (English summary) **2000e:11148**

Koike, Masao Hypergeometric polynomials over finite fields. (English summary) **2000a:11174**

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Lange, Tanja (*with* Winterhof, Arne) Factoring polynomials over arbitrary finite fields. (English summary) **2000k:11136**

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Reifegerste, Astrid Enumeration of special sets of polynomials over finite fields. (English summary) **2000b:11133**

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Byott, Nigel P. (*with* Chapman, Robin J.) Power sums over finite subspaces of a field. (English summary) **2000g:11119**

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Coulter, Robert S. (*with* Havas, George; Henderson, Marie) Functional decomposition of a class of wild polynomials. (English summary) **2000c:13035**

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Lindhurst, Scott An analysis of Shanks's algorithm for computing square roots in finite fields. (English summary) **2000b:11140**

Lindström, Bernt Primitive quadratics reflected in B_2-sequences. (English summary) **2000j:11029**

Özbudak, Ferruh (*with* Stichtenoth, Henning) Curves with many points and configurations of hyperplanes over finite fields. (English summary) **2000h:11066**

Roelse, Peter L. A. ★ Linear methods for polynomial factorization over finite fields. **2000k:11142**

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Zieve, Michael E. A note on the discriminator. (English summary) **2000a:11037**

11T22 Cyclotomy

Anuradha, N. *see* **Katre, S. A., 2000b:11135**

Becker, Eberhard (*with* del P. Canales, M.) Higher levels of $\mathbf{Z}/p^l\mathbf{Z}$ and period equations. (English summary) **2000g:11117**

Borwein, P. B. (*with* Choi, Kwok-Kwong Stephen) On cyclotomic polynomials with ± 1 coefficients. (English summary) **2000m:11121**

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Katre, S. A. (*with* Anuradha, N.) Explicit evaluation of cyclotomic numbers of prime order. (English summary) **2000b:11135**

Motose, Kaoru On values of cyclotomic polynomials. IV. **2000c:11196**

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Schmidt, Bernhard Cyclotomic integers and finite geometry. (English summary) **2000a:05042**

Thaine, F. On the coefficients of Jacobi sums in prime cyclotomic fields. (English summary) **2000c:11181**

11T23 Exponential sums

Caragiu, Mihai (*with* Mullen, Gary L.) The distribution of power residues in finite fields. (English summary) **2000c:11197**

Helleseth, Tor (*with* Zinov′ev, V. A.) On Z_4-linear Goethals codes and Kloosterman sums. (English summary) **2000i:11186**

Mullen, Gary L. *see* **Caragiu, Mihai, 2000c:11197**

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Kim, Dae San Exponential sums for symplectic groups and their applications. **2000h:11085**

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Voloch, José Felipe (*with* Walker, Judy L.) Codes over rings from curves of higher genus. (English summary) **2000m:94045**

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11T24 Other character sums and Gauss sums

Ishibashi, Haruo (*with* Ito, Tatsuro; Yamada, Mieko) Terwilliger algebras of cyclotomic schemes and Jacobi sums. (English summary) **2000e:11149**

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Koike, Masao A note on hypergeometric polynomials over the finite field. **2000g:11118**

Wang, Ju Ping Some new results on character sums and normal bases of finite fields. (Chinese. Chinese summary) **2000f:11161**

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Gurak, S. On the middle factor of the period polynomial for finite fields. (English summary) **2000b:11134**

— On certain Gauss periods with common decomposition field. (English summary) **2000d:11152**

Özbudak, Ferruh Codes on fibre products of some Kummer coverings. (English summary) **2000i:11187**

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Stepanov, Sergei Aleksandrovich Fibre products, character sums, and geometric Goppa codes. (English summary) **2000b:11101**

11T30 Structure theory

Biró, András Notes on a problem of H. Cohn. (English summary) **2000e:11150**

Byott, Nigel P. (*with* Chapman, Robin J.) Power sums over finite subspaces of a field. (English summary) **2000g:11119**

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Cohen, Stephen D. (*with* Hachenberger, Dirk) Actions of linearized polynomials on the algebraic closure of a finite field. (English summary) **2000d:11153**

— (*with* Hachenberger, Dirk) Primitive normal bases with prescribed trace. (English summary) **2000c:11198**

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Meshulam, Roy (*with* Sonn, Jack) A quantitative version of a lemma of Shafarevich-Ishkhanov. (English summary) **2000b:11136**
Schueller, Laura Mann *see* **Leep, David B., 2000c:11199**
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Winterhof, Arne Polynomial spaces over finite fields. (English summary) **2000g:11120**
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Dussaud, René Réalisations polynomiales équivalentes. (French summary) [Equivalent polynomial realizations] **2000g:11114**
Gerth, Frank, III Some asymptotics for triangular matrices over finite fields. (English summary) **2000c:11042**
Mullen, Gary L. *see* **Caragiu, Mihai, 2000c:11197**
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11T55 Arithmetic theory of polynomial rings over finite fields

Helleseth, Tor (*with* Rong, Chunming; Sandberg, Daniel) New families of almost perfect nonlinear power mappings. (English summary) **2000c:11201**
Mkaouar, Mohamed Sur le développement en fraction continue des séries formelles quadratiques sur $\mathbf{F}_2(X)$. [Continued fraction expansion of quadratic formal power series over $\mathbf{F}_2(X)$] **2000m:11122**
Rong, Chunming *see* **Helleseth, Tor et al., 2000c:11201**
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Wall, G. E. Counting cyclic and separable matrices over a finite field. (English summary) **2000k:11137**
Zhang, Qifan Algebraic geometry's approach to permutation polynomials in several indeterminates. (English summary) **2000e:11152**

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Cohen, Stephen D. (*with* Hachenberger, Dirk) Actions of linearized polynomials on the algebraic closure of a finite field. (English summary) **2000d:11153**
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11Yxx Computational number theory [see also 11–04]

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11Y50 Computer solution of Diophantine equations

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11Y65 Continued fraction calculations

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11Z05 Miscellaneous applications of number theory

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12–XX Field theory and polynomials

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12–06 Proceedings, conferences, collections, etc.

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12Dxx Real and complex fields

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12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

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12E12 Equations

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12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45, 16Kxx]

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12E20 Finite fields (field-theoretic aspects)

Jung, Seok-Won *see* **Park, Il-Whan et al., 2000b:12004**
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12E25 Hilbertian fields; Hilbert's irreducibility theorem

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12E30 Field arithmetic

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12E99 None of the above, but in this section

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12Fxx Field extensions

12F05 Algebraic extensions

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12F10 Separable extensions, Galois theory

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Massy, Richard (*with* Monier-Derviaux, Sylvie) Parallélogrammes galoisiens. (English summary) [Galois parallelograms] **2000e:12012**
Meyer, Petra Eine Charakterisierung vollständig regulärer, abelscher Erweiterungen. [A characterization of completely regular, abelian extensions] **2000b:12006**
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Jensen, C. U. (*with* Prestel, Alexander) How often can a finite group be realized as a Galois group over a field? (English summary) **2000d:12002**
Kitaoka, Yoshiyuki Finite arithmetic subgroups of GL_n. VI. **2000j:20091**
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Malle, Gunter (*with* Matzat, B. Heinrich) ★ Inverse Galois theory. (English summary) **2000k:12004**
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12F12 Inverse Galois theory

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Dettweiler, Michael (*with* Reiter, Stefan) On rigid tuples in linear groups of odd dimension. (English summary) **2000m:12007**
Ducos, Lionel Réalisation régulière explicite des groupes abéliens finis comme groupes de Galois. (English summary) [Explicit regular realization of finite abelian groups as Galois groups] **2000c:12008**
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— Generic polynomials for quasi-dihedral, dihedral and modular extensions of order 16. (English summary) **2000k:12003**
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Strambach, Karl (*with* Völklein, Helmut) On linearly rigid tuples. (English summary) **2000e:20075**
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12F15 Inseparable extensions

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12F20 Transcendental extensions

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Kontogeorgis, Aristides The group of automorphisms of cyclic extensions of rational function fields. (English summary) **2000f:12005**
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12F99 None of the above, but in this section

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12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 14F22, 16H05, 16K50]

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12G10 Cohomological dimension

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Gille, Philippe Éléments unipotents des groups algébriques semi-simples simplement connexes en caractéristique $p > 0$. (English and French summaries) [Unipotent elements of simply connected semisimple algebraic groups in characteristic $p > 0$] **2000f:20074**

12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

Berman, P. H. (*with* Singer, Michael F.) Calculating the Galois group of $L_1(L_2(y)) = 0$, L_1, L_2 completely reducible operators. (English summary) **2000h:12009**
Compoint, Elie (*with* Singer, Michael F.) Computing Galois groups of completely reducible differential equations. (English summary) **2000m:12010**
Dwork, Bernard M. On the size of differential modules. **2000b:12009**
Kul'chinovskiĭ, V. B. Ordered differential fields. (Russian. Russian summary) **2000j:12009**
Ollivier, François Une réponse négative au problème de Lüroth différentiel en dimension 2. (English and French summaries) [A negative answer to the δ-Lüroth problem in two variables] **2000a:12005**
— Une réponse négative au problème de Noether différential. (English and French summaries) [A negative answer to the differential Noether problem] **2000k:12005**
van der Put, Marius Recent work on differential Galois theory. (English summary) **2000h:12010**
Reinhart, Georg M. The Schmidt-Kolchin conjecture. (English summary) **2000m:12011**
Rida, Saad Zagloul Explicit formulae for the powers of a Schrödinger-like ordinary differential operator. (English summary) **2000g:12003**
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Athorne, Chris Symmetries of linear ordinary differential equations. (English summary) **2000e:34057**
(Bass, Hyman) *see* **Kolchin, Ellis, 2000g:01042**
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Marker, David Zariski geometries. **2000b:12011**
Morales Ruiz, Juan J. ★ Differential Galois theory and non-integrability of Hamiltonian systems. (English summary) **2000g:37076**
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12H10 Difference algebra [see also 39Axx]

Hendriks, Peter A. An algorithm determining the difference Galois group of second order linear difference equations. **2000d:12003**
— (*with* Singer, Michael F.) Solving difference equations in finite terms. (English summary) **2000c:12012**
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Buium, Alexandru Differential subgroups of simple algebraic groups over p-adic fields. (English summary) **2000e:14079**
Fahim, Abdelmajid *see* **Levelt, A. H. M., 2000k:39016**
Felder, Giovanni *see* **Varchenko, A. N., 2000a:37070**
Levelt, A. H. M. (*with* Fahim, Abdelmajid) Characteristic classes for difference operators. (English summary) **2000k:39016**
van der Put, Marius (*with* Singer, Michael F.) ★ Galois theory of difference equations. **2000e:39008**
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12H20 Abstract differential equations [see also 34Mxx]

Compoint, Elie Differential equations and algebraic relations. (English summary) **2000a:12006**
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Athorne, Chris On the Lie symmetry algebra of a general ordinary differential equation. (English summary) **2000f:34072**
Maĭnetti, Nicolas Derivatives of abstract analytic elements. **2000k:12006**
Morales Ruiz, Juan J. (*with* Ramis, Jean Pierre) Galoisian obstructions to integrability of Hamiltonian systems: statements and examples. (English summary) **2000g:37077**
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Ramis, Jean Pierre *see* **Morales Ruiz, Juan J., 2000g:37077**
Yoshida, Haruo Integrable homogeneous potential systems and Schwarz triangles. (Japanese. Japanese summary) **2000j:37069**

12H25 p-adic differential equations [see also 11S80, 14G20]

Christol, Gilles (*with* Mebkhout, Zoghman) Exposants p-adiques. [p-adic exponents] **2000c:12013**
Lian, Bong H. (*with* Yau, Shing-Tung) Integrality of certain exponential series. (English summary) **2000h:12011**
Mebkhout, Zoghman *see* **Christol, Gilles, 2000c:12013**

Pons, Emilie Polygone de convergence d'un module différentiel p-adique. (English and French summaries) [Polygon of convergence of a p-adic differential module] **2000b:12010**
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Bertolin, Cristiana G-fonctions et cohomologie des hypersurfaces singulières. II. (English summary) [G-functions and cohomology of singular hypersurfaces. II] **2000c:11100**
Garnier, L. Descente par Frobenius explicite pour les $\mathscr{D}^\dagger$-modules. (English summary) [Explicit Frobenius descent for $\mathscr{D}^\dagger$-modules] **2000b:14023**
Walsh, P. Gary On the complexity of rational Puiseux expansions. (English summary) **2000b:14031**

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12Jxx Topological fields

12J10 Valued fields

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Engler, Antonio José (*with* Prestel, Alexander) Tame Galois p-extensions of p-Henselian fields. (English summary) **2000f:12007**
Garg, Usha *see* **Khanduja, Sudesh K., 2000g:12004**
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Khanduja, Sudesh K. (*with* Garg, Usha) On a query of Adrian Wadsworth. (English summary) **2000g:12004**
Ponomarëv, K. N. Solvable elimination of ramification in extensions of discretely valued fields. (Russian. Russian summary) **2000a:12008**
Prestel, Alexander *see* **Engler, Antonio José, 2000f:12007**
Vámos, Peter Kaplansky fields and p-algebraically closed fields. **2000a:12009**

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Bélair, Luc Types dans les corps valués munis d'applications coefficients. (English summary) [Types in valued fields equipped with coefficient mappings] **2000h:03070**
Efrat, Ido Finitely generated pro-p absolute Galois groups over global fields. (English summary) **2000c:12007**
— Finitely generated pro-p Galois groups of p-Henselian fields. (English summary) **2000e:12011**
Gräter, Joachim (*with* Klein, Markus) The principal axis theorem for holomorphic functions. (English summary) **2000c:15030**
Klein, Markus *see* **Gräter, Joachim, 2000c:15030**
Priess-Crampe, Sibylla (*with* Ribenboim, Paulo) Fixed point and attractor theorems for ultrametric spaces. (English summary) **2000j:54049**
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12J15 Ordered fields

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Becker, Eberhard (*with* Berr, R.; Gondard-Cozette, Danielle) Valuation fans and residually real closed Henselian fields. **2000d:12004**
Berarducci, Alessandro Factorization in generalized power series. (English summary) **2000c:13033**
Berr, R. (*with* Delon, Françoise; Schmid, Joachim) Ordered fields and the ultrafilter theorem. (English summary) **2000e:03138**
— *see also* **Becker, Eberhard et al., 2000d:12004**
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Kul'chinovskiĭ, V. B. Ordered differential fields. (Russian. Russian summary) **2000j:12009**
Li, Chun Wen A new number system and its calculus. I. The construction of the number system. (Chinese. English and Chinese summaries) **2000c:03053**
Maxwell, Steve A general model completeness result for expansions of the real ordered field. (English summary) **2000c:03031**
Schmid, Joachim *see* **Berr, R. et al., 2000e:03138**
Tararin, V. M. 0-2-transitive automorphism groups with abelian point stabilizer. (Russian. Russian summary) **2000g:20007**
Vélez, M. Pilar On fans in real surfaces. (English summary) **2000b:14079**
Zeng, Guang Xing A problem about the weak Hilbert property. (Chinese. English and Chinese summaries) **2000h:12002**
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12J20 General valuation theory [see also 13A18]

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Maïnetti, Nicolas Derivatives of abstract analytic elements. **2000k:12006**
Ribenboim, Paulo ★ The theory of classical valuations. (English summary) **2000d:12007**
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Romano, Daniel Avraám Semivaluations on Heyting fields. (English and Serbian summaries) **2000b:03221**
Vámos, Peter Kaplansky fields and p-algebraically closed fields. **2000a:12009**

12J25 Non-Archimedean valued fields [see also 30G06, 32P05, 46S10, 47S10]

Khanduja, Sudesh K. (*with* Saha, Jayanti) Generalized Hensel's lemma. (English summary) **2000m:12013**
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12Kxx Generalizations of fields

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12Lxx Connections with logic

12L05 Decidability [see also 03B25]

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12L10 Ultraproducts [see also 03C20]

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13–XX Commutative rings and algebras

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33 Years of Gröbner Bases ★ Gröbner bases and applications. **2000e:13003**
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Eforie ★ Combinatorics in algebra and geometry. **2000j:13001**
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13Axx General commutative ring theory

13A02 Graded rings [see also 16W50]

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13A15 Ideals; multiplicative ideal theory

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13A18 Valuations and their generalizations [see also 12J20]

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13A30 Associated graded rings of ideals (Rees ring, form ring), analytic spread and related topics

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13Bxx Ring extensions and related topics

13B02 Extension theory

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13B05 Galois theory

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13B10 Morphisms

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13B22 Integral closure of rings and ideals [see also 13A35]; integrally closed rings, related rings (Japanese, etc.)

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13B24 Going up; going down; going between

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Cahen, Paul-Jean *see* **Ayache, Ahmed, 2000f:13045**

13B25 Polynomials over commutative rings [see also 11C08, 13F20, 13M10]

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Feng, Keqin (*with* Yu, Jie-Tai) New classes of test polynomials of polynomial algebras. (English summary) **2000m:13011**
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Yu, Jie-Tai *see* **Feng, Keqin, 2000m:13011**
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Li, Aihua (*with* Wiegand, Sylvia) Prime ideals in two-dimensional domains over the integers. (English summary) **2000d:13001**
Matsuda, Ryūki Note on complete integral closures of semigroup rings. (English summary) **2000f:13013**
Mulay, S. B. Integer-valued polynomials in several variables. **2000e:13028**
Sato, Shizuka On the ring of constants of a derivation of $\mathbf{R}[x, y]$. (English summary) **2000e:13036**
Wang, Rui[2] Some structures of irreducible polynomials over a unique factorization domain R. (English and Chinese summaries) **2000e:11025**
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13B30 Quotients and localization

Kang, Byung Gyun (*with* Park, Mi Hee) A localization of a power series ring over a valuation domain. (English summary) **2000f:13015**
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Park, Mi Hee *see* **Kang, Byung Gyun, 2000f:13015**
Rim, Seog-Hoon *see* **Lee, Jaegook, 2000b:13014**

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Cho, Yong Hwan Coprimely packed rings. II. (English summary) **2000g:13001**
Yengui, Ihsen One counterexample for two open questions about the rings $R\langle X\rangle$ and $R\langle\langle X\rangle\rangle$. (English summary) **2000m:13017**

13B35 Completion [see also 13J10]

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Enochs, Edgar E. *see* **Belshoff, Richard G. et al., 2000j:13015**
García Rozas, Juan Ramon *see* **Belshoff, Richard G. et al., 2000j:13015**

13B40 Étale and flat extensions; Henselization; Artin approximation [see also 13J15, 14B12, 14B25]

Douai, Jean-Claude *see* **Draouil, Belgacem, 2000b:13015**
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Onoda, Nobuharu (*with* Sugatani, Takasi; Yoshida, Ken-ichi[1]) Note on LCM-stability of simple extensions of Noetherian domains. (English summary) **2000a:13019**
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13Cxx Theory of modules and ideals

13C05 Structure, classification theorems

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Coan, Boyd Top exterior powers over commutative rings. (English summary) **2000e:13014**
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May, Warren Lee[2] *see* **Goldsmith, B., 2000d:13016**
McAdam, Stephen Deep decompositions of modules. (English summary) **2000h:13007**

13C10 Projective and free modules and ideals [see also 19A13]

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Files, Steve (*with* Göbel, Rüdiger) Representations over PID's with three distinguished submodules. (English summary) **2000j:13016**
Göbel, Rüdiger *see* **Files, Steve, 2000j:13016**
Gubeladze, Joseph Toric degenerations and vector bundles. (English summary) **2000b:13016**
Murthy, M. Pavaman Projective modules over affine algebras and efficient generation of modules. **2000e:13016**
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Namazi, S. (*with* Sharif, Habib) Catenary modules. (English summary) **2000g:13004**
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Sharif, Habib *see* **Namazi, S., 2000g:13004**
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Bhatwadekar, S. M. (*with* Sridharan, Raja) Zero cycles and the Euler class groups of smooth real affine varieties. **2000f:14010**
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Eisenbud, David (*with* Popescu, Sorin) Gale duality and free resolutions of ideals of points. **2000i:13014**
Geramita, Anthony V. (*with* Harima, Tadahito; Shin, Yong Su) Extremal point sets and Gorenstein ideals. **2000h:13011**
Harima, Tadahito *see* **Geramita, Anthony V. et al., 2000h:13011**
Liu, Zhong Kui Hermite and PS-rings of Hurwitz series. (English summary) **2000m:13033**
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Marcelo Wirnitzer, Félix *see* **Marcelo Vega, Agustín et al., 2000m:13014**
Olberding, Bruce Globalizing local properties of Prüfer domains. **2000f:13040**
Popescu, Sorin *see* **Eisenbud, David, 2000i:13014**
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Seelinger, George F. Brauer-Severi schemes of finitely generated algebras. (English summary) **2000j:14030**
Shin, Yong Su *see* **Geramita, Anthony V. et al., 2000h:13011**
Singh, Balwant[1] On subintegrality. **2000h:13015**
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13C11 Injective and flat modules and ideals

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Jenda, Overtoun M. G. *see* **Enochs, Edgar E., 2000a:13025**
Mohajer, Keivan (*with* Yassemi, Siamak) Notes on the regular modules. (English summary) **2000j:13018**
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Zhang, Lihong On torsion theories of regulars and V-rings. (English summary) **2000e:16031**

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Divaani-Aazar, K. (*with* Tousi, M.) Asymptotic prime ideals related to exact functors. (English summary) **2000f:13018**
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Lu, Chin-Pi Unions of prime submodules. (English summary) **2000c:13015**
Man, Shing Hing On commutative Noetherian rings which satisfy the generalized radical formula. **2000g:13005**
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Salce, Luigi The Boboli garden of uniserial modules. (English summary) **2000g:13006**
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— (*with* Harmancı, Abdullah) On prime submodules and primary decomposition. (English summary) **2000m:13015**
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Lu, Chin-Pi The Zariski topology on the prime spectrum of a module. (English summary) **2000m:13020**
May, Warren Lee[2] *see* **Goldsmith, B., 2000d:13016**
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13C14 Cohen-Macaulay modules [see also 13H10]

Ene, Viviana (*with* Popescu, Dorin) Steps in the classification of Cohen-Macaulay modules over singularities of type $x^t + y^3$. (English summary) **2000f:13020**
Kato, Kiriko Cohen-Macaulay approximations from the viewpoint of triangulated categories. (English summary) **2000f:13021**
Pfister, Gerhard (*with* Popescu, Dorin) A family of Cohen-Macaulay modules over singularities of type $X^t + Y^3$. (English summary) **2000k:13007**
Popescu, Dorin *see* **Ene, Viviana, 2000f:13020** *and* **Pfister, Gerhard, 2000k:13007**
Schenzel, Peter On the dimension filtration and Cohen-Macaulay filtered modules. (English summary) **2000i:13012**
Singh, Anurag K. Separable integral extensions and plus closure. (English summary) **2000f:13022**
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Herzog, Jürgen (*with* Reiner, Victor; Welker, Volkmar) Componentwise linear ideals and Golod rings. **2000d:13032**
Huckaba, Sam (*with* Huneke, Craig) Normal ideals in regular rings. (English summary) **2000d:13014**
Huneke, Craig *see* **Huckaba, Sam, 2000d:13014**
Iyengar, Srikanth Depth for complexes, and intersection theorems. (English summary) **2000a:13027**
Lavila-Vidal, Olga (*with* Zarzuela Armengou, Santiago) On the Gorenstein property of the diagonals of the Rees algebra. (English summary) **2000a:13008**
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Nguyen Tu Cuong (*with* Vu The Khoi) A lower bound for index of reducibility of parameter ideals in local rings. (English summary) **2000b:13029**
— (*with* Nguyen Duc Minh) On the length of generalized fractions of modules having polynomial type ≤ 2. **2000b:13030**
Reiner, Victor *see* **Herzog, Jürgen et al., 2000d:13032**
Tamone, G. On the Hilbert function of some non-Cohen-Macaulay graded rings. **2000e:13024**
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Welker, Volkmar *see* **Herzog, Jürgen et al., 2000d:13032**
Zarzuela Armengou, Santiago *see* **Lavila-Vidal, Olga, 2000a:13008**

13C15 Dimension theory, depth, related rings (catenary, etc.)

Bouchiba, S. (*with* Girolami, F.; Kabbaj, Salah-Eddine) The dimension of tensor products of k-algebras arising from pullbacks. (English summary) **2000f:13023**
Girolami, F. *see* **Bouchiba, S. et al., 2000f:13023**
Goeters, H. Pat Reflexive rings and subrings of a product of Dedekind domains. (English summary) **2000c:13018**
Han, Yang D rings. (Chinese. English and Chinese summaries) **2000b:13020**
Johnson, Mark Ray Hypersurface sections and S_2-modules. (English summary) **2000m:13016**
Kabbaj, Salah-Eddine *see* **Bouchiba, S. et al., 2000f:13023**
Lee, Kisuk Golod pair and Golod invariant. **2000h:13008**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) On conditions for $R[\alpha, \alpha^{-1}]$ to be exclusive and contractions of principal ideals of $R[\alpha] \cup R[\alpha^{-1}]$. (English summary) **2000c:13019**
Rahmati, H. (*with* Yassemi, Siamak) The singular sets of a complex of modules. (English summary) **2000f:13024**
Yassemi, Siamak *see* **Rahmati, H., 2000f:13024**
Yengui, Ihsen One counterexample for two open questions about the rings $R\langle X\rangle$ and $R\langle X\rangle$. (English summary) **2000m:13017**
Yoshida, Ken-ichi[1] *see* **Oda, Susumu, 2000c:13019**

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Badawi, Ayman On divided commutative rings. (English summary) **2000a:13001**
Bărcănescu, Ş. The dim-depth decomposition of graded algebras over a field. (English summary) **2000k:13001**
Ben Nasr, Mabrouk (*with* Echi, Othman; Izelgue, Lahoucine; Jarboui, Noômen) Pairs of domains where all intermediate domains are Jaffard. (English summary) **2000i:13011**
Condo, John T. (*with* Coykendall, Jim) Strong convergence properties of SFT rings. (English summary) **2000c:13029**
Coykendall, Jim *see* **Condo, John T., 2000c:13029**
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Enochs, Edgar E. (*with* Jenda, Overtoun M. G.) Gorenstein injective dimension and Tor-depth of modules. (English summary) **2000a:13025**
Gilmer, Robert (*with* Heinzer, William) Prime ideals of finite height in polynomial rings. (English summary) **2000d:13029**
Guerrieri, Anna (*with* Rossi, Maria Evelina) Estimates on the depth of the associated graded ring. **2000a:13007**
Heinzer, William *see* **Gilmer, Robert, 2000d:13029**
Huneke, Craig (*with* Wiegand, Roger) Tensor products of modules, rigidity and local cohomology. **2000d:13027**
Izelgue, Lahoucine *see* **Ben Nasr, Mabrouk et al., 2000i:13011**
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Jenda, Overtoun M. G. *see* **Enochs, Edgar E., 2000a:13025**
Jorgensen, David A. A generalization of the Auslander-Buchsbaum formula. (English summary) **2000k:13010**
Kang, Byung Gyun (*with* Park, Mi Hee) Completion of a Prüfer domain. (English summary) **2000f:13039**
Namazi, S. (*with* Sharif, Habib) Catenary modules. (English summary) **2000g:13004**
Park, Mi Hee *see* **Kang, Byung Gyun, 2000f:13039**
Rossi, Maria Evelina *see* **Guerrieri, Anna, 2000a:13007**
Shank, R. James (*with* Wehlau, David L.) On the depth of the invariants of the symmetric power representations of $SL_2(\mathbf{F}_p)$. (English summary) **2000f:13010**
Sharif, Habib *see* **Namazi, S., 2000g:13004**
Wang, Fang Gui w-dimension of domains. **2000f:13046**
Wehlau, David L. *see* **Shank, R. James, 2000f:13010**
Weyman, Jerzy The Grothendieck group of $\mathrm{GL}(F) \times \mathrm{GL}(G)$-equivariant modules over the coordinate ring of determinantal varieties. **2000a:13026**
Wiegand, Roger *see* **Huneke, Craig, 2000d:13027**

13C20 Class groups [see also 11R29]

Baba, Kiyoshi Relative invariants and divisor class groups. I. (English summary) **2000c:13020**
— Relative invariants and divisor class groups. II. (English summary) **2000i:13013**
Gabelli, Stefania On Nagata's theorem for the class group. II. **2000g:13007**
Phan Van Thien On Segre bound for the regularity index of fat points in $\mathbf{P}^2$. (English summary) **2000d:13019**

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Kainrath, Florian Factorization in Krull monoids with infinite class group. (English summary) **2000c:20088**
Kang, Byung Gyun Characterizations of Krull rings with zero divisors. (English summary) **2000k:13016**
Reyes Sanchez, M. V. (*with* Smet, A.; Verschoren, Alain) Involutive invariants of the second kind. (English summary) **2000m:16028**
Smet, A. *see* **Reyes Sanchez, M. V. et al., 2000m:16028**
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13C40 Linkage, complete intersections and determinantal ideals [see also 14M06, 14M10, 14M12]

Băeţică, Cornel Pfaffian ideals of linear type. **2000e:13018**
Bresinsky, Henrik (*with* Stückrad, Jürgen) Quasi-complete intersections of monomial curves in projective three-space. **2000g:13008**
Conca, Aldo (*with* De Negri, Emanuela) M-sequences, graph ideals, and ladder ideals of linear type. **2000d:13020**
De Negri, Emanuela *see* **Conca, Aldo, 2000d:13020**
Domokos, Mátyás Gröbner bases of certain determinantal ideals. (English summary) **2000j:13019**
García-Sánchez, Pedro A. *see* **Rosales, J. C., 2000j:13020**

Isogawa, Satoru *see* **Yoshino, Yuji, (2000e:13002)**
Martin, Heath M. Linkage by generically Gorenstein, Cohen-Macaulay ideals. (English summary) **2000a:13021**
Migliore, Juan C. Gorenstein liaison via divisors. **2000m:13018**
Nagel, Uwe Even liaison classes generated by Gorenstein linkage. **2000a:13022**
Rosales, J. C. (*with* García-Sánchez, Pedro A.) On free affine semigroups. **2000j:13020**
Stückrad, Jürgen *see* **Bresinsky, Henrik, 2000g:13008**
Wang, Wen Ju Some invariant properties of linkage classes. (Chinese. English and Chinese summaries) **2000f:13025**
Yoshino, Yuji (*with* Isogawa, Satoru) Remarks on linkage classes of Cohen-Macaulay modules. (*see* **2000e:13002**)

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Băeţică, Cornel Simplicial complexes associated to determinantal ideals. (English summary) **2000m:13039**
Coudurier, Laurence (*with* Morales, Marcel) Classification des courbes toriques dans l'espace projectif, module de Rao et liaison. [Classification of toric curves in projective space, Rao module and linkage] **2000a:14036**
Eisenbud, David (*with* Popescu, Sorin) Syzygy ideals for determinantal ideals and the syzygetic Castelnuovo lemma. **2000f:13026**
Fløystad, Gunnar A property deducible from the generic initial ideal. (English summary) **2000c:13039**
Kunz, Ernst On the tangent bundle of a scheme. (English summary) **2000j:13048**
Kustin, Andrew R. The minimal free resolution of the Migliore-Peterson rings in the case that the reflexive sheaf has even rank. (English summary) **2000a:13024**
Migliore, Juan C. ★ Introduction to liaison theory and deficiency modules. (English summary) **2000g:14058**
Morales, Marcel *see* **Coudurier, Laurence, 2000a:14036**
Popescu, Sorin *see* **Eisenbud, David, 2000f:13026**
Singh, Anurag K. F-regularity does not deform. (English summary) **2000e:13006**
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Jarboui, Noômane Some remarks on the altitude inequality. (English summary) **2000j:13021**
Komoto, Susumu (*with* Watanabe, Toru) Presheaves associated to modules over subrings of Dedekind domains. **2000m:13019**
Lu, Chin-Pi The Zariski topology on the prime spectrum of a module. (English summary) **2000m:13020**
Sharif, Habib *see* **Azizi, Abdul Rasool, 2000e:13019**
Watanabe, Toru *see* **Komoto, Susumu, 2000m:13019**

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Atani, Shahabaddin Ebrahimi Modules over associated graded rings. **2000h:13001**
Cutkosky, Steven Dale (*with* Herzog, Jürgen; Ngô Viêt Trung) Asymptotic behaviour of the Castelnuovo-Mumford regularity. (English summary) **2000f:13037**
Herzog, Jürgen *see* **Cutkosky, Steven Dale et al., 2000f:13037**
Lam, Tsit-Yuen ★ Modules with isomorphic multiples and rings with isomorphic matrix rings. **2000d:16006**
Markov, Svetoslav M. On the algebraic properties of convex bodies. (English summary) **2000f:52001**
McCasland, R. L. (*with* Moore, M. E.; Smith, Patrick F.) An introduction to Zariski spaces over Zariski topologies. (English summary) **2000c:13016**
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13Exx Chain conditions, finiteness conditions

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13F05 Dedekind, Prüfer and Krull rings and their generalizations

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13F15 Factorial rings, unique factorization domains [see also 14M05]

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13F20 Polynomial rings and ideals; rings of integer-valued polynomials [see also 11C08, 13B25]

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13F25 Formal power series rings [see also 13J05]

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13F30 Valuation rings [see also 13A18]

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13F40 Excellent rings

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13F50 Rings with straightening laws, Hodge algebras

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13F55 Face and Stanley-Reisner rings; simplicial complexes [see also 55U10]

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Gubeladze, Joseph *see* **Bruns, Winfried, 2000g:13011**
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13Hxx Local rings and semilocal rings

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13H15 Multiplicity theory and related topics [see also 14C17]

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13Jxx Topological rings and modules [see also 16W60, 16W80]

13J05 Power series rings [see also 13F25]

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13J10 Complete rings, completion [see also 13B35]

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13J15 Henselian rings [see also 13B40]

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13J25 Ordered rings [see also 06F25]

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13J30 Real algebra [see also 12D15, 14Pxx]

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13K05 Witt vectors and related rings

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13L05 Applications of logic to commutative algebra [see also 03Cxx, 03Hxx]

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13M05 Structure

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13Nxx Differential algebra [see also 12H05, 14F10]

13N05 Modules of differentials

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13P99 None of the above, but in this section

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Liang, Songxin (*with* Zhang, Jingzhong) A complete discrimination system for polynomials with complex coefficients and its automatic generation. (English summary) **2000h:12012**

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Marcelo Wirnitzer, Félix *see* **Marcelo Vega, Agustín et al., 2000m:13014**

Matera, Guillermo *see* **Heintz, J. et al., 2000b:65249**

Mourrain, Bernard (*with* Pan, Victor Y.) Multidimensional structured matrices and polynomial systems. (English summary) **2000b:65102**

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Pan, Victor Y. *see* **Mourrain, Bernard, 2000b:65102**

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Rodríguez Mielgo, César *see* **Marcelo Vega, Agustín et al., 2000m:13014**

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14–XX Algebraic geometry

14–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bix, Robert ★ Conics and cubics. (English summary) **2000c:14001**
Bump, Daniel ★ Algebraic geometry. **2000a:14001**
Gibson, C. G. ★ Elementary geometry of algebraic curves: an undergraduate introduction. (English summary) **2000a:14002**
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14–02 Research exposition (monographs, survey articles)

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Cox, David A. (*with* Katz, Sheldon H.) ★ Mirror symmetry and algebraic geometry. (English summary) **2000d:14048**
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14–03 Historical (must also be assigned at least one classification number from Section 01)

Ciliberto, Ciro M. de Franchis and the theory of hyperelliptic surfaces. **2000c:14002**
(de Franchis, Michele) *see* **Ciliberto, Ciro, 2000c:14002** *and* **Sernesi, Edoardo, 2000c:14003**
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Brigaglia, Aldo (*with* Ciliberto, Ciro) Algebraic geometry. **2000c:01027**
(Castelnuovo, G.) *see* **Bottazzini, Umberto et al., 2000a:01021**
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Gray, Jeremy J. The classification of algebraic surfaces by Castelnuovo and Enriques. **2000a:01016**
— ★ Linear differential equations and group theory from Riemann to Poincaré. (English summary) **2000m:34002**
(Iskovskikh, Vasiliĭ Alekseevich) *see* **Birthday: Iskovskikh, Vasiliĭ Alekseevich, (2000c:00042)**
Ullrich, Peter Die Entdeckung der Analogie zwischen Zahl- und Funktionenkörpern: der Ursprung der "Dedekind-Ringe". [The discovery of the analogy between number and function fields: the origin of "Dedekind rings"] **2000f:11002**

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14–04 Explicit machine computation and programs (not the theory of computation or programming)

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Martin, Bernd Computing versal deformations with SINGULAR. (English summary) **2000c:14015**
Rabotin, V. V. MAPLE—a program for determining the Hodge number of three-dimensional Calabi-Yau varieties. (Russian) (*see* **2000g:00029**)

14–06 Proceedings, conferences, collections, etc.

(Buff, Xavier) *see* **Moduli spaces of curves, mapping class groups and field theory, 2000i:14001**
(Catanese, Fabrizio) *see* **New trends in algebraic geometry, 2000e:14001**
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(Hirzebruch, Friedrich) *see* **Algebraic geometry: Hirzebruch 70, 2000g:14002**
(Hulek, Klaus) *see* **New trends in algebraic geometry, 2000e:14001**
(Klein, Felix) *see* **Eightfold way, 2000f:14001**
(Levy, Silvio) *see* **Eightfold way, 2000f:14001**
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(González-Aguilera, Victor) *see* **Complex geometry of groups, 2000g:00046**
(Peternell, Thomas) *see* **Complex analysis and algebraic geometry, 2000m:00046**
(Raskind, Wayne) *see* **Algebraic K-theory, 2000j:19001**
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14Axx Foundations

14A05 Relevant commutative algebra [see also 13–XX]

Items with secondary classifications in 14A05

Sombra, Martín A sparse effective Nullstellensatz. (English summary) **2000c:13041**

14A10 Varieties and morphisms

Gromov, Mikhael L. Endomorphisms of symbolic algebraic varieties. (English summary) **2000f:14003**
Lin, Jun A property of polynomial functions over fields and its appplications. (Chinese. English and Chinese summaries)
Skrzyński, Marcin Remarks on applications of rank functions to algebraic sets of matrices. **2000g:14004**

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Ha, H. Tai (*with* Van Tuyl, Adam) The graph and the image of a rational map from $\mathbf{P}^n$ to $\mathbf{P}^m$. (English summary) **2000e:14015**
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Van Tuyl, Adam *see* **Ha, H. Tai, 2000e:14015**

14A15 Schemes and morphisms

Items with secondary classifications in 14A15

Alonso Tarrío, Leovigildo (*with* Jeremías López, Ana; Lipman, Joseph) ★ Studies in duality on Noetherian formal schemes and non-Noetherian ordinary schemes. (English summary) **2000h:14017**
Fujiwara, Kazuhiro Rigid geometry and étale cohomology of schemes. **2000h:14020**
Jeremías López, Ana *see* **Alonso Tarrío, Leovigildo et al., 2000h:14017**
(Kato, Goro) *see* **Ueno, Kenji, 2000g:14001**
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14A20 Generalizations (algebraic spaces, stacks)

Items with secondary classifications in 14A20

van den Bergh, Michel Abstract blowing down. (English summary) **2000c:14019**
Denef, Jan (*with* Loeser, François) Motivic exponential integrals and a motivic Thom-Sebastiani theorem. **2000k:14006**
Loeser, François *see* **Denef, Jan, 2000k:14006**
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14A22 Noncommutative algebraic geometry

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14A25 Elementary questions

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Gamboa, J. M. A note on cohomology over non-algebraically closed fields. (English summary) **2000j:14035**

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Pillay, Anand Model theory of algebraically closed fields. **2000f:12008**
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14Bxx Local theory

14B05 Singularities [see also 14E15, 14H20, 14J17, 32Sxx, 58Kxx]

Borisov, Alexandr On classification of toric singularities. **2000e:14003**
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Müller, Gerd Symmetries of surface singularities. **2000m:14039**
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14B07 Deformations of singularities [see also 14D15, 32S30]

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14B10 Infinitesimal methods [see also 13D10]

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14B12 Local deformation theory, Artin approximation, etc. [see also 13B40, 13D10]

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14B20 Formal neighborhoods

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14B25 Local structure of morphisms: étale, flat, etc. [see also 13B40]

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14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

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Włodarczyk, Jarosław Maximal quasiprojective subsets and the Kleiman-Chevalley quasiprojectivity criterion. (English summary) **2000i:14009**
Yokoyama, Koji On blowing-up of polarized surfaces. (English summary) **2000b:14040**

14C21 Pencils, nets, webs [see also 53A60]

Avritzer, D. (*with* Miranda, Rick) Stability of pencils of quadrics in $\mathbf{P}^4$. (English summary) **2000j:14014**
Håversen, Sigfred Stability of pencils of cubic surfaces in $\mathbf{P}^3$. (English summary) **2000g:14012**
Miranda, Rick *see* **Avritzer, D., 2000j:14014**
Schmitt, Alexander H. W. Base point free pencils of small degree on certain smooth curves. (English summary) **2000k:14005**

Items with secondary classifications in 14C21

Bauer, Thomas Seshadri constants on algebraic surfaces. **2000d:14006**
Chen, Meng Complex varieties of general type whose canonical systems are composed with pencils. (English summary) **2000b:14039**
Zucconi, Francesco Numerical inequalities for surfaces with canonical map composed with a pencil. (English summary) **2000c:14053**

14C22 Picard groups

Coombes, Kevin R. Elliptic curves and logarithmic derivatives. (English summary) **2000b:14012**
van Hamel, Joost Divisors on real algebraic varieties without real points. (English summary) **2000f:14009**
Krasnov, V. A. Real algebraic varieties without real points. (Russian. Russian summary) **2000j:14015**
Włodarczyk, Jarosław Maximal quasiprojective subsets and the Kleiman-Chevalley quasiprojectivity criterion. (English summary) **2000i:14009**

Items with secondary classifications in 14C22

Bhosle, Usha N. Picard groups of the moduli spaces of vector bundles. **2000g:14016**
Steer, Brian (*with* Wren, Andrew) Grothendieck topology and the Picard group of a complex orbifold. **2000j:14029**
Wren, Andrew *see* **Steer, Brian, 2000j:14029**

14C25 Algebraic cycles

del Baño Rollin, Sebastian (*with* Navarro Aznar, Vicente) On the motive of a quotient variety. (English summary) **2000d:14009**
Barbieri Viale, L. Balanced varieties. (English summary) **2000i:14010**
Becheanu, Mircea Finite sets of points in the projective plane. (English summary) **2000m:14008**
Bhatwadekar, S. M. (*with* Sridharan, Raja) Zero cycles and the Euler class groups of smooth real affine varieties. **2000f:14010**
Clozel, L. Equivalence numérique et équivalence cohomologique pour les variétés abéliennes sur les corps finis. [Numerical equivalence and cohomological equivalence for abelian varieties over finite fields] **2000f:14011**

Colliot-Thélène, Jean-Louis Principe local-global pour les zéro-cycles sur les surfaces réglées. [Local-global principle for zero-cycles on ruled surfaces] **2000d:14010**
Esnault, Hélène (*with* Srinivas, Vasudevan; Viehweg, Eckart) The universal regular quotient of the Chow group of points on projective varieties. **2000f:14012**
(Frossard, E.) *see* **Colliot-Thélène, Jean-Louis, 2000d:14010**
Hanamura, Masaki Mixed motives and algebraic cycles. III. **2000d:14011**
Kimura, Ken-ichiro An example of algebraic cycles with nontrivial Abel-Jacobi images. (English summary) **2000m:14009**
Künnemann, Klaus Algebraic cycles on toric fibrations over abelian varieties. **2000h:14007**
Moonen, B. J. J. *see* **Zarkhin, Yu. G., 2000a:14008**
Navarro Aznar, Vicente *see* **del Baño Rollin, Sebastian, 2000d:14009**
Sato, Kanetomo Injectivity of the torsion cycle map of codimension two of varieties over p-adic fields with semi-stable reduction. (English summary) **2000a:14007**
Spieß, Michael Proof of the Tate conjecture for products of elliptic curves over finite fields. **2000d:14012**
Sridharan, Raja *see* **Bhatwadekar, S. M., 2000f:14010**
Srinivas, Vasudevan *see* **Esnault, Hélène et al., 2000f:14012**
(Suresh, V.) *see* **Colliot-Thélène, Jean-Louis, 2000d:14010**
Viehweg, Eckart *see* **Esnault, Hélène et al., 2000f:14012**
Wang, Bin[7] Mazur's incidence structure for projective varieties. I. (English summary) **2000c:14010**
Zarkhin, Yu. G. (*with* Moonen, B. J. J.) Weil classes and Rosati involutions on complex abelian varieties. **2000a:14008**

Items with secondary classifications in 14C25

del Angel R., Pedro Luis (*with* Müller-Stach, Stefan) On Chow motives of 3-folds. (English summary) **2000i:14005**
Asakura, Masanori *see* **Matsumi, Kazuya et al., 2000k:11078**
Barlow, R. N. Zero-cycles on Mumford's surface. (English summary) **2000i:14006**
(Bloch, Spencer) *see* **Consani, Caterina, 2000e:14008**
Bochnak, Jacek (*with* Kucharz, Wojciech) On homology classes represented by real algebraic varieties. **2000b:14080**
Chan, C.-Y. Jean Filtrations of modules, the Chow group, and the Grothendieck group. (English summary) **2000f:13029**
Collino, Alberto Indecomposable motivic cohomology classes on quartic surfaces and on cubic fourfolds. (English summary) **2000i:14013**
Consani, Caterina The local monodromy as a generalized algebraic correspondence. (English summary) **2000e:14008**
Friedlander, Eric M. Algebraic cocycles on normal, quasi-projective varieties. (English summary) **2000a:14024**
— Bloch-Ogus properties for topological cycle theory. (English and French summaries) **2000m:14025**
Gordon, B. Brent (*with* Lewis, James D.) Indecomposable higher Chow cycles on products of elliptic curves. (English summary) **2000d:14003**
Izhboldin, Oleg T. (*with* Karpenko, Nikita A.) Isotropy of virtual Albert forms over function fields of quadrics. (English summary) **2000h:11035**
Karpenko, Nikita A. *see* **Izhboldin, Oleg T., 2000h:11035**
Kresch, Andrew Canonical rational equivalence of intersections of divisors. **2000d:14005**
Kucharz, Wojciech *see* **Bochnak, Jacek, 2000b:14080**
Lewis, James D. *see* **Gordon, B. Brent, 2000d:14003**
Matsumi, Kazuya (*with* Sato, Kanetomo; Asakura, Masanori) On the kernel of the reciprocity map of normal surfaces over finite fields. (English summary) **2000k:11078**
Milne, J. S. Lefschetz motives and the Tate conjecture. (English summary) **2000i:11090**
Müller-Stach, Stefan *see* **del Angel R., Pedro Luis, 2000i:14005**
Otwinowska, Anna Remarques sur les cycles de petite dimension de certaines intersections complètes. (English and French summaries) [Remarks on the cycles of small dimension of certain complete intersections] **2000g:14008**
Raciti, G. The Hilbert function of zero-dimensional subschemes in $\mathbf{P}^3$ contained in a cubic surface. (Italian. English summary) **2000c:14008**
Sato, Kanetomo *see* **Matsumi, Kazuya et al., 2000k:11078**
Voisin, Claire Some results on Green's higher Abel-Jacobi map. **2000d:14004**

14C30 Transcendental methods, Hodge theory [see also 14D07, 32G20, 32J25, 32S35], Hodge conjecture

Abdulali, Salman Abelian varieties of type III and the Hodge conjecture. (English summary) **2000g:14013**
(Bloch, Spencer) *see* **Consani, Caterina, 2000e:14008**
Consani, Caterina The local monodromy as a generalized algebraic correspondence. (English summary) **2000e:14008**
Denef, Jan (*with* Loeser, François) Motivic exponential integrals and a motivic Thom-Sebastiani theorem. **2000k:14006**
(Gordon, B. Brent) *see* **Lewis, James D., 2000a:14010**
Katzarkov, Ludmil On the Shafarevich maps. **2000a:14009**
Kim, Ki Hang (*with* Roush, F. W.) Remarks on the Hodge conjecture. (English summary) **2000j:14016**
Lewis, James D. ★ A survey of the Hodge conjecture. (English summary) **2000a:14010**
Loeser, François *see* **Denef, Jan, 2000k:14006**
Mayer, Richárd Coupled contact systems and rigidity of maximal dimensional variations of Hodge structure. (English summary) **2000j:14017**
Moonen, B. J. J. (*with* Zarkhin, Yu. G.) Hodge classes on abelian varieties of low dimension. **2000j:14018**
Rossi, Michele Hodge theory on cyclotomic threefolds (with a view towards the higher dimensional case). (Italian summary)
Roush, F. W. *see* **Kim, Ki Hang, 2000j:14016**
Usui, Sampei Recovery of vanishing cycles by log geometry: case of several variables. (English summary) **2000g:14014**
Zarkhin, Yu. G. *see* **Moonen, B. J. J., 2000j:14018**

Items with secondary classifications in 14C30

Barlow, R. N. Zero-cycles on Mumford's surface. (English summary) **2000i:14006**
Broer, Abraham Hyperplane arrangements, Springer representations and exponents. **2000b:17008**
Campana, Frédéric Connexité abélienne des variétés kählériennes compactes. (English and French summaries) [Abelian connectedness of compact Kähler manifolds] **2000h:32024**
— Quotients résolubles des groupes de Kähler et ensembles de Green-Lazarsfeld. (English and French summaries) [Solvable quotients of Kähler groups and Green-Lazarsfeld loci] **2000h:32025**
Carlson, James A. (*with* Toledo, Domingo) Discriminant complements and kernels of monodromy representations. **2000c:14012**
Chai, Ching-Li Density of members with extra Hodge cycles in a family of Hodge structures. (English summary) **2000j:14019**
Clemens, Herbert ★ Introduction to Hodge theory. **2000m:32028**
Esnault, Hélène (*with* Srinivas, Vasudevan; Viehweg, Eckart) The universal regular quotient of the Chow group of points on projective varieties. **2000f:14012**
Gelfand, Sergei (*with* Manin, Yuriĭ Ivanovich) ★ Homological algebra. (English summary) **2000b:18016**
Hassett, Brendan Some rational cubic fourfolds. **2000a:14046**
Izadi, E. A Prym construction for the cohomology of a cubic hypersurface. **2000i:14064**
Manin, Yuriĭ Ivanovich *see* **Gelfand, Sergei, 2000b:18016**
Matsubara, Toshiharu On log Hodge structures of higher direct images. **2000e:32028**
Meo, Michel Caractérisation des courants associés aux cycles algébriques par leur transformé de Chow. (English summary) [Characterization of the currents associated with algebraic cycles by their Chow transform] **2000m:32014**
Moonen, B. J. J. *see* **Zarkhin, Yu. G., 2000a:14008**
Srinivas, Vasudevan *see* **Esnault, Hélène et al., 2000f:14012**
Toledo, Domingo *see* **Carlson, James A., 2000c:14012**
Tsuji, Hajime Existence and applications of analytic Zariski decompositions. (English summary) **2000d:32038**
Viehweg, Eckart *see* **Esnault, Hélène et al., 2000f:14012**
Voisin, Claire A generic Torelli theorem for the quintic threefold. **2000i:14012**
Yanai, Hiromichi On the Hodge cycle of CM types. (Japanese) (*see* **2000k:11003**)
Zarkhin, Yu. G. (*with* Moonen, B. J. J.) Weil classes and Rosati involutions on complex abelian varieties. **2000a:14008**

14C34 Torelli problem [see also 32G20]

del Angel R., Pedro Luis Deformations of complex hypersurfaces on G/P and an infinitesimal Torelli theorem. (English summary) **2000d:14013**
Arezzo, Claudio On the Torelli theorem for minimal immersions. **2000h:14008**
Oguiso, Keiji An equivariant Torelli theorem for $K3$ surfaces with finite group action and its applications. **2000i:14011**
Usui, Sampei Torelli-type problems [translation of Sūgaku **49** (1997), no. 3, 235–252; MR 99d:14008]. (*see* **2000m:00054**)
Voisin, Claire A generic Torelli theorem for the quintic threefold. **2000i:14012**

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Hertling, Claus Brieskorn lattices and Torelli type theorems for cubics in $\mathbf{P}^3$ and for Brieskorn-Pham singularities with coprime exponents. (English summary) **2000h:32040**
— Classifying spaces for polarized mixed Hodge structures and for Brieskorn lattices. (English summary) **2000d:32048**

14C35 Applications of methods of algebraic K-theory [see also 19Exx]

Collino, Alberto Indecomposable motivic cohomology classes on quartic surfaces and on cubic fourfolds. (English summary) **2000i:14013**
Gubeladze, Joseph K-theory of affine toric varieties. (English summary) **2000e:14009**
Nizioł, Wiesława Crystalline conjecture via K-theory. (English and French summaries) **2000e:14010**
Roessler, Damien Analytic torsion for cubes of vector bundles and Gillet's Riemann-Roch theorem. (English summary) **2000h:14009**
Rosenschon, Andreas Indecomposable elements in K_1 of a smooth projective variety. (English summary) **2000a:14011**
Spieß, Michael On indecomposable elements of K_1 of a product of elliptic curves. (English summary) **2000f:14013**

Items with secondary classifications in 14C35

Biswas, J. G. (*with* Srinivas, Vasudevan) The Chow ring of a singular surface. (English summary) **2000d:14002**
Bochnak, Jacek (*with* Kucharz, Wojciech) On homology classes represented by real algebraic varieties. **2000b:14080**
Erez, B. Geometric trends in Galois module theory. (English summary) **2000d:11138**
Friedlander, Eric M. (*with* Weibel, Charles A.) An overview of algebraic K-theory. **2000i:19001**
Gillet, Henri K-theory and algebraic geometry. (English summary) **2000i:19012**
Goncharov, A. B. Mixed elliptic motives. **2000e:11084**
Hanamura, Masaki Mixed motives and algebraic cycles. III. **2000d:14011**
Kahn, Bruno La conjecture de Milnor (d'après V. Voevodsky). (French summary) [Milnor's conjecture (after V. Voevodsky)] **2000a:19002**
— (*with* Rost, Markus; Sujatha, R.) Unramified cohomology of quadrics. I. (English summary) **2000b:11041**
Knudson, Kevin P. On the K-theory of elliptic curves. (English summary) **2000b:20056**
Kucharz, Wojciech *see* **Bochnak, Jacek, 2000b:14080**
Kurano, Kazuhiko (*with* Roberts, Paul C.) Adams operations, localized Chern characters, and the positivity of Dutta multiplicity in characteristic 0. (English summary) **2000j:13005**
Nestler, Andrew SK_1 of affine curves over finite fields. (English summary) **2000k:19003**
Roberts, Paul C. *see* **Kurano, Kazuhiko, 2000j:13005**

Rost, Markus *see* **Kahn, Bruno et al., 2000b:11041**
Srinivas, Vasudevan *see* **Biswas, J. G., 2000d:14002**
Sujatha, R. *see* **Kahn, Bruno et al., 2000b:11041**
Weibel, Charles A. *see* **Friedlander, Eric M., 2000i:19001**

14C40 Riemann-Roch theorems [see also 19E20, 19L10]

Shin, Dong-Kwan On a fiber space with connected fibers. (English summary) **2000a:14012**
Toen, B. Théorèmes de Riemann-Roch pour les champs de Deligne-Mumford. (English and French summaries) [Riemann-Roch theorems for Deligne-Mumford stacks] **2000h:14010**
Yokura, Shoji A singular Riemann-Roch for Hirzebruch characteristics. **2000c:14011**
— On a Verdier-type Riemann-Roch for Chern-Schwartz-MacPherson class. (English summary) **2000e:14011**

Items with secondary classifications in 14C40

Bismut, Jean-Michel Quillen metrics and singular fibres in arbitrary relative dimension. (English summary) **2000a:58084**
— Local index theory and higher analytic torsion. (English summary) **2000e:58049**
Biswas, J. G. (*with* Srinivas, Vasudevan) The Chow ring of a singular surface. (English summary) **2000d:14002**
Brylinski, Jean-Luc Geometric construction of Quillen line bundles. **2000f:14032**
Chan, C.-Y. Jean Filtrations of modules, the Chow group, and the Grothendieck group. (English summary) **2000f:13029**
(Harder, G.) *see* **Neukirch, Jürgen, 2000m:11104**
Jeffrey, Lisa C. (*with* Kirwan, Frances C.) Intersection theory on moduli spaces of holomorphic bundles of arbitrary rank on a Riemann surface. **2000c:14045**
Joshua, Roy Equivariant Riemann-Roch for G-quasi-projective varieties. I. (English summary) **2000e:19007**
Kirwan, Frances C. *see* **Jeffrey, Lisa C., 2000c:14045**
Lax, R. F. Special subschemes on cuspidal curves. (English summary) **2000k:14022**
Neukirch, Jürgen ★ Algebraic number theory. **2000m:11104**
Penna, Vittorio (*with* Spera, Mauro) Remarks on quantum vortex theory on Riemann surfaces. (English summary) **2000e:14053**
Roessler, Damien An Adams-Riemann-Roch theorem in Arakelov geometry. **2000a:14029**
— Analytic torsion for cubes of vector bundles and Gillet's Riemann-Roch theorem. (English summary) **2000h:14009**
(Schappacher, Norbert) *see* **Neukirch, Jürgen, 2000m:11104**
Spera, Mauro *see* **Penna, Vittorio, 2000e:14053**
Srinivas, Vasudevan *see* **Biswas, J. G., 2000d:14002**
Terakawa, Hiroyuki The k-very ampleness and k-spannedness on polarized abelian surfaces. (English summary) **2000g:14011**
Zhou, Jianyi Classes de Chern bivariantes et classes polaires relatives. (English and French summaries) [Bivariant Chern classes and relative polar classes] **2000g:14009**

14C99 None of the above, but in this section

Items with secondary classifications in 14C99

Barlet, Daniel (*with* Magnússon, Jón) Intégration de classes de cohomologie méromorphes et diviseurs d'incidence. (English and French summaries) [Integration of meromorphic cohomology classes and incidence divisors] **2000c:32030**
Idà, Monica The minimal free resolution for the first infinitesimal neighborhoods of n general points in the plane. **2000d:13022**
Magnússon, Jón *see* **Barlet, Daniel, 2000c:32030**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, monodromy, etc.)

Carlson, James A. (*with* Toledo, Domingo) Discriminant complements and kernels of monodromy representations. **2000c:14012**
Isidro, José María² Properties of period integrals of complex algebraic curves. (English summary) **2000a:14013**
Stienstra, Jan Resonant hypergeometric systems and mirror symmetry. (English summary) **2000b:14013**
Toledo, Domingo *see* **Carlson, James A., 2000c:14012**

Items with secondary classifications in 14D05

Abolhasani, M. R. *see* **Ghezelbash, Amir Masoud et al., 2000b:81167**
André, Yves¹ p-adic orbifolds and p-adic triangle groups. (English summary) **2000g:14032**
Aomoto, Kazuhiko Errata to: "Configurations and invariant Gauss-Manin connections of integrals. I" [Tokyo J. Math. **5** (1982), no. 2, 249–287; MR 85k:32022].
(Bloch, Spencer) *see* **Consani, Caterina, 2000e:14008**
Bolibrukh, A. A. On sufficient conditions for the existence of a Fuchsian equation with prescribed monodromy. (English summary) **2000j:34117**
— On Fuchsian systems with given asymptotics and monodromy. (Russian. Russian summary) **2000h:34148**
Brandhuber, Andreas (*with* Stieberger, S.) Periods, coupling constants and modular functions in $N = 2$ SU(2) SYM with massive matter. (English summary) **2000d:81153**
Consani, Caterina The local monodromy as a generalized algebraic correspondence. (English summary) **2000e:14008**
Ghezelbash, Amir Masoud (*with* Shafiekhani, A.; Abolhasani, M. R.) On the Picard-Fuchs equations of $N = 2$ supersymmetric E_6 Yang-Mills theory. (English summary) **2000b:81167**
Gross, Mark Special Lagrangian fibrations. I. Topology. (English summary) **2000e:14066**
Karu, K. Semistable reduction in characteristic zero for families of surfaces and threefolds. (English summary) **2000j:14054**
Kato, Mitsuo Schwarz maps of ${}_3F_2$ with finite irreducible monodromy groups. **2000e:33004**
Katz, Nicholas M. (*with* Sarnak, Peter) ★ Random matrices, Frobenius eigenvalues, and monodromy. (English summary) **2000b:11070**
Kostov, Vladimir Petrov Quantum states of monodromy groups. (English summary) **2000h:34149**
Lerche, Wolfgang Lecture on $N = 2$ supersymmetric gauge theory. **2000h:81311**
Ohta, Yūji Picard-Fuchs ordinary differential systems in $N = 2$ supersymmetric Yang-Mills theories. (English summary) **2000c:81339**
Sarnak, Peter *see* **Katz, Nicholas M., 2000b:11070**
Shafiekhani, A. *see* **Ghezelbash, Amir Masoud et al., 2000b:81167**
Stieberger, S. *see* **Brandhuber, Andreas, 2000d:81153**

14D06 Fibrations, degenerations

Items with secondary classifications in 14D06

Debarre, Olivier On the Euler characteristic of generalized Kummer varieties. (English summary) **2000m:14053**
Némethi, András (*with* Sabbah, Claude) Semicontinuity of the spectrum at infinity. (English summary) **2000j:32047**
Sabbah, Claude *see* **Némethi, András, 2000j:32047**

14D07 Variation of Hodge structures [see also 32G20]

Chai, Ching-Li Density of members with extra Hodge cycles in a family of Hodge structures. (English summary) **2000j:14019**
Eyssidieux, Philippe Kähler hyperbolicity and variations of Hodge structures. **2000g:14015**
Getzler, E. Resolving mixed Hodge modules on configuration spaces. **2000j:14020**
Kim, Minhyong ABC inequalities for some moduli spaces of log-general type. **2000a:14014**
Losev, Andrei Hodge strings and elements of K. Saito's theory of primitive form. (English summary) **2000c:14013**
Sabbah, Claude On a twisted de Rham complex. (English summary) **2000c:14014**
Terasoma, Tomohide Hodge structure of Gel'fand-Kapranov-Zelevinski hypergeometric integral and twisted Ehrhart polynomial. **2000d:14014**

Items with secondary classifications in 14D07

(Bloch, Spencer) *see* **Consani, Caterina, 2000e:14008**
Carlson, James A. (*with* Toledo, Domingo) Discriminant complements and kernels of monodromy representations. **2000c:14012**
Consani, Caterina The local monodromy as a generalized algebraic correspondence. (English summary) **2000e:14008**
Denef, Jan (*with* Loeser, François) Motivic exponential integrals and a motivic Thom-Sebastiani theorem. **2000k:14006**
Gelfand, Sergei (*with* Manin, Yuriĭ Ivanovich) ★ Homological algebra. (English summary) **2000b:18016**
Gross, Mark Special Lagrangian fibrations. I. Topology. (English summary) **2000e:14066**
Hertling, Claus Classifying spaces for polarized mixed Hodge structures and for Brieskorn lattices. (English summary) **2000d:32048**
Loeser, François *see* **Denef, Jan, 2000k:14006**
Manin, Yuriĭ Ivanovich *see* **Gelfand, Sergei, 2000b:18016**
Ran, Ziv Universal variations of Hodge structure and Calabi-Yau-Schottky relations. **2000j:14021**
Toledo, Domingo *see* **Carlson, James A., 2000c:14012**
Usui, Sampei Recovery of vanishing cycles by log geometry: case of several variables. (English summary) **2000g:14014**
— Torelli-type problems [translation of Sūgaku **49** (1997), no. 3, 235–252; MR 99d:14008]. (*see* **2000m:00054**)

14D10 Arithmetic ground fields (finite, local, global)

Silverman, Joseph H. The space of rational maps on $\mathbf{P}^1$. **2000m:14010**

Items with secondary classifications in 14D10

Colliot-Thélène, Jean-Louis (*with* Skorobogatov, A. N.) Descent on fibrations over $\mathbf{P}^1_k$ revisited. (French summary) **2000m:11052**
Kim, Minhyong Erratum for: "Geometric height inequalities and the Kodaira-Spencer map" [Compositio Math. **105** (1997), no. 1, 43–54; MR 98j:14029].
Skorobogatov, A. N. *see* **Colliot-Thélène, Jean-Louis, 2000m:11052**
Swinnerton-Dyer, H. P. F. Some applications of Schinzel's hypothesis to Diophantine equations. **2000c:11105**

14D15 Formal methods; deformations [see also 13D10, 14B07, 32Gxx]

Martin, Bernd Computing versal deformations with SINGULAR. (English summary) **2000c:14015**
Ran, Ziv Universal variations of Hodge structure and Calabi-Yau-Schottky relations. **2000j:14021**
— Canonical infinitesimal deformations. **2000f:14014**

Items with secondary classifications in 14D15

Arrondo, Enrique (*with* Graña, B.) Vector bundles on $G(1, 4)$ without intermediate cohomology. **2000e:14069**
Bachmat, E. (*with* Goren, E. Z.) On the non-ordinary locus in Hilbert-Blumenthal surfaces. **2000b:14058**
Fialowski, Alice (*with* Fuchs, Dmitry) Construction of miniversal deformations of Lie algebras. (English summary) **2000g:17026**
Fuchs, Dmitry *see* **Fialowski, Alice, 2000g:17026**
Gaitsgory, Dennis Grothendieck topologies and deformation theory. II. (English summary) **2000e:14021**
Goren, E. Z. *see* **Bachmat, E., 2000b:14058**

Graña, B. *see* **Arrondo, Enrique, 2000e:14069**
Hwang, Jun-Muk (*with* Mok, Ngaiming) Holomorphic maps from rational homogeneous spaces of Picard number 1 onto projective manifolds. **2000j:14026**
Maria, Valérie (*with* Pitteloud, Yves) Stratifying families of torsion-free sheaves on a smooth surface by their singularities. (English summary) **2000j:14027**
Merkulov, Sergei The extended moduli space of special Lagrangian submanifolds. (English summary) **2000k:53072**
Mok, Ngaiming *see* **Hwang, Jun-Muk, 2000j:14026**
Namikawa, Yoshinori A construction of flops by deformation theory. **2000a:14016**
Pitteloud, Yves *see* **Maria, Valérie, 2000j:14027**
Shustin, Evgenii (*with* Tyomkin, Ilya) Versal deformation of algebraic hypersurfaces with isolated singularities. **2000e:14073**
Tyomkin, Ilya *see* **Shustin, Evgenii, 2000e:14073**

14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13.}

Anghel, Cristian Fibrés vectoriels stables avec $\chi = 0$ sur une surface abélienne simple. (English summary) [Stable vector bundles with $\chi = 0$ over a simple abelian surface] **2000i:14014**
Bhosle, Usha N. Picard groups of the moduli spaces of vector bundles. **2000g:14016**
Esteves, Eduardo ★ Construção de espaços de moduli. (Portuguese) [Construction of moduli spaces] **2000k:14007**
Göttsche, Lothar Theta functions and Hodge numbers of moduli spaces of sheaves on rational surfaces. (English summary) **2000k:14008**
Hausel, Tamás Vanishing of intersection numbers on the moduli space of Higgs bundles. (English summary) **2000g:14017**
Hu, Yi Moduli spaces of stable polygons and symplectic structures on $\overline{\mathscr{M}}_{0,n}$. (English summary) **2000g:14018**
Kapovich, Michael (*with* Millson, John J.) Moduli spaces of linkages and arrangements. (English summary) **2000g:14019**
— (*with* Millson, John J.) On the moduli space of a spherical polygonal linkage. (English summary) **2000g:14020**
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— (*with* Morgan, John W.; Witten, Edward) Vector bundles over elliptic fibrations. **2000b:14053**
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14D22 Fine and coarse moduli spaces

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Kovács, Sándor J. Algebraic hyperbolicity of fine moduli spaces. **2000i:14017**
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14Exx Birational geometry

14E05 Rational and birational maps

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14E07 Birational automorphisms, Cremona group and generalizations

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14E08 Rationality questions

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14E15 Global theory and resolution of singularities [see also 14B05, 32S20, 32S45]

Alwadi, Youssef Dimension of the cohomology groups of the canonical resolution of some A_n-singularities. (English summary) **2000k:14012**
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14E20 Coverings [see also 14H30]

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Harbater, David (*with* Schneps, Leila) Fundamental groups of moduli and the Grothendieck-Teichmüller group. (English summary) **2000j:14025**
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Kim, Meeyoung (*with* Manivel, Laurent) On branched coverings of some homogeneous spaces. (English summary) **2000c:14020**
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Mochizuki, Shinichi The local pro-p anabelian geometry of curves. **2000j:14037**
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Orevkov, S. Yu. *see* **Domrina, A. V., 2000b:14090**
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14E22 Ramification problems [see also 11S15]

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14E25 Embeddings

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14E30 Minimal model program (Mori theory, extremal rays)

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— On abundance theorem for semi log canonical threefolds. (English summary) **2000f:14059**
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14Fxx (Co)homology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related constructions [see also 14H60, 14J60, 18F20, 32Lxx, 46M20]

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Causa, Antonio (*with* Re, Riccardo; Teodorescu, Titus) Some remarks on linear spaces of nilpotent matrices. **2000g:14026**
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Esnault, Hélène (*with* Viehweg, Eckart) Semistable bundles on curves and irreducible representations of the fundamental group. (English summary) **2000i:14049**
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Migliore, Juan C. ★ Introduction to liaison theory and deficiency modules. (English summary) **2000g:14058**
Mourougane, Christophe Images directes de fibrés en droites adjoints. (English summary) [Direct images of adjoint line bundles] **2000a:32042**
Pumpluen, S. The Witt group of symmetric bilinear forms over a Brauer-Severi variety with values in a line bundle. (English summary) **2000i:19016**
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14F10 Differentials and other special sheaves [see also 13Nxx, 32C38]

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Cannings, Rob C. (*with* Holland, Martin P.) Limits of compactified Jacobians and $\mathcal{D}$-modules on smooth projective curves. (English summary) **2000e:14019**
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Hübl, Reinhold Graded duality and generalized fractions. (English summary) **2000h:14014**
Huyghe, Christine $\mathcal{D}^\dagger(\infty)$-affinité des schémas projectifs. (English and French summaries) [$\mathcal{D}^\dagger(\infty)$-affinity of projective schemes] **2000a:14019**
Lauritzen, Niels (*with* Mehta, Vikram) Differential operators and the Frobenius pull back of the tangent bundle on G/P. (English summary) **2000b:14021**
Liţcanu, Răzvan On an algebraic Lefschetz type theorem. (French summary) **2000a:14020**
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Çimen, N. (*with* Erdoğan, A.) Projective dimension of the universal modules for the product of a hypersurface and affine T-space. (English summary) **2000d:13033**
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Erdoğan, A. *see* **Çimen, N.**, **2000d:13033**
Garnier, L. Descente par Frobenius explicite pour les $\mathcal{D}^\dagger$-modules. (English summary) [Explicit Frobenius descent for $\mathcal{D}^\dagger$-modules] **2000b:14023**
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Hirokado, Masayuki Singularities of multiplicative p-closed vector fields and global 1-forms of Zariski surfaces. (English summary) **2000i:14055**
Hübl, Reinhold (*with* Yekutieli, Amnon) Adelic Chern forms and applications. (English summary) **2000h:14016**
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Sabbah, Claude Hypergeometric period for a tame polynomial. (English and French summaries) **2000b:32053**
Usa, Takeshi Problems on geometric structures of projective embeddings. (English summary) **2000i:14021**
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14F17 Vanishing theorems [see also 32L20]

Ballico, Edoardo Vanishing of sections of vector bundles on 0-dimensional schemes. (English summary) **2000m:14022**
Brodmann, Markus Cohomology of surfaces $X \subseteq \mathbf{P}^r$ with degree $\leq 2r-2$. (English summary) **2000m:14023**
Ein, Lawrence (*with* Lazarsfeld, Robert) A geometric effective Nullstellensatz. **2000j:14028**
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Kim, Meeyoung (*with* Manivel, Laurent) On branched coverings of some homogeneous spaces. (English summary) **2000c:14020**
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Cutkosky, Steven Dale (*with* Herzog, Jürgen; Ngô Việt Trung) Asymptotic behaviour of the Castelnuovo-Mumford regularity. (English summary) **2000f:13037**
Hara, Nobuo A characteristic p proof of Wahl's vanishing theorem for rational surface singularities. (English summary) **2000f:14051**
Herzog, Jürgen *see* **Cutkosky, Steven Dale et al.**, **2000f:13037**
Magyar, Peter Borel-Weil theorem for configuration varieties and Schur modules. (English summary) **2000e:14087**
Maşek, Vladimir Very ampleness of adjoint linear systems on smooth surfaces with boundary. (English summary) **2000d:14008**
Mourougane, Christophe Versions kählériennes du théorème d'annulation de Bogomolov. (English summary) [Kählerian versions of the Bogomolov vanishing theorem] **2000b:32044**
Nagatomo, Yasuyuki Another type of instanton bundles on $\mathrm{Gr}_2(\mathbf{C}^{n+2})$. **2000d:14015**
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Weber, Andrzej A morphism of intersection homology and hard Lefschetz. (English summary) **2000j:14033**

14F20 Étale and other Grothendieck topologies and cohomologies

Butz, Carsten (*with* Moerdijk, Ieke) Topological representation of sheaf cohomology of sites. (English summary) **2000g:14027**
Fu, Lei[1] On the semisimplicity of pure sheaves. (English summary) **2000a:14021**
Gaitsgory, Dennis Grothendieck topologies and deformation theory. II. (English summary) **2000e:14021**
Kajiwara, Takeshi (*with* Nakayama, Chikara) Weights of the l-adic cohomology of a proper toric variety. (English summary) **2000e:14022**
Kato, Kazuya (*with* Nakayama, Chikara) Log Betti cohomology, log étale cohomology, and log de Rham cohomology of log schemes over **C**. **2000i:14023**
Krasnov, V. A. Étale and equivariant cohomologies of a real algebraic variety. (Russian. Russian summary) **2000d:14021**
Loeser, François Faisceaux pervers, transformation de Mellin et déterminants. (English and French summaries) [Perverse sheaves, Mellin transform and determinants] **2000a:14022**
Moerdijk, Ieke *see* **Butz, Carsten, 2000g:14027**
Morita, Yasuo Tate's conjectures for the second étale cohomologies of abelian surfaces. (English summary) **2000g:14028**
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Caenepeel, S. (*with* Grandjean, F.) A note on Taylor's Brauer group. (English summary) **2000f:14027**
Clozel, L. Equivalence numérique et équivalence cohomologique pour les variétés abéliennes sur les corps finis. [Numerical equivalence and cohomological equivalence for abelian varieties over finite fields] **2000f:14011**
Crew, Richard Finiteness theorems for the cohomology of an overconvergent isocrystal on a curve. (English and French summaries) **2000a:14023**
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Moser, Thomas A duality theorem for étale p-torsion sheaves on complete varieties over a finite field. (English summary) **2000f:14030**
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Niziol, Wieslawa Crystalline conjecture via K-theory. (English and French summaries) **2000e:14010**
Prasad, Dipendra *see* **Murty, V. Kumar, 2000m:14028**
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Sato, Kanetomo l-adic Abel-Jacobi mappings of algebraic varieties over global fields. (Japanese) (*see* **2000k:11003**)
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Teleman, Constantin Borel-Weil-Bott theory on the moduli stack of G-bundles over a curve. (English summary) **2000b:14014**
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14F22 Brauer groups of schemes [see also 12G05, 16K50]

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Colliot-Thélène, Jean-Louis (*with* Kunyavskiĭ, B. È.) Groupe de Brauer non ramifié des espaces principaux homogènes de groupes linéaires. (English summary) [Unramified Brauer group of principal homogeneous spaces of linear groups] **2000c:14021**
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Yui, Noriko Formal Brauer groups arising from certain weighted $K3$ surfaces. (English summary) **2000h:14015**

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(Frossard, E.) *see* **Colliot-Thélène, Jean-Louis, 2000d:14010**
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Yanchevskiĭ, Vyacheslav I. *see* **Goglev, V. V., 2000k:11071**

14F25 Classical real and complex cohomology

Items with secondary classifications in 14F25

Bochnak, Jacek (*with* Kucharz, Wojciech) On homology classes represented by real algebraic varieties. **2000b:14080**
Cheah, Jan The virtual Hodge polynomials of nested Hilbert schemes and related varieties. **2000c:14007**
Kato, Kazuya (*with* Nakayama, Chikara) Log Betti cohomology, log étale cohomology, and log de Rham cohomology of log schemes over **C**. **2000i:14023**
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Wiśniewski, Jarosław A. Cohomological invariants of complex manifolds coming from extremal rays. **2000e:14018**

14F30 p-adic cohomology, crystalline cohomology

Berthelot, Pierre Dualité de Poincaré et formule de Künneth en cohomologie rigide. (English and French summaries) [Poincaré duality and Künneth formula for rigid cohomology] **2000c:14023**
Breuil, Christophe Représentations semi-stables et modules fortement divisibles. [Semistable representations and strongly divisible modules] **2000c:14024**
Chambert-Loir, Antoine Cohomologie cristalline: un survol. (English and French summaries) [Crystalline cohomology: a survey] **2000d:14023**
Chiarellotto, Bruno (*with* Le Stum, Bernard) F-isocristaux unipotents. (English and French summaries) [Unipotent F-isocrystals] **2000g:14029**
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Coleman, Robert F. (*with* Iovita, Adrian) The Frobenius and monodromy operators for curves and abelian varieties. **2000e:14023**
Crew, Richard Finiteness theorems for the cohomology of an overconvergent isocrystal on a curve. (English and French summaries) **2000a:14023**
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— Descente des isocristaux et $\mathscr{D}^\dagger$-modules. (English summary) [Descent of isocrystals and $\mathscr{D}^\dagger$-modules] **2000e:14024**
Iovita, Adrian *see* **Coleman, Robert F., 2000e:14023**
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Mochizuki, Shinichi ★ Foundations of p-adic Teichmüller theory. **2000i:14025**
Moser, Thomas A duality theorem for étale p-torsion sheaves on complete varieties over a finite field. (English summary) **2000f:14030**
Ochiai, Tadashi On operators of local Weil groups and their traces. (Japanese) (*see* **2000k:11003**)
Saïbi, Moussa Majoration de sommes trigonométriques modulo p^n. (English summary) [Upper bounds for trigonometric sums modulo p^n] **2000c:14025**
Sato, Kanetomo l-adic Abel-Jacobi mappings of algebraic varieties over global fields. (Japanese) (*see* **2000k:11003**)
Tsuji, Takeshi Poincaré duality for logarithmic crystalline cohomology. (English summary) **2000k:14017**
— p-adic étale cohomology and crystalline cohomology in the semi-stable reduction case. **2000m:14024**
— Introduction to the theory of Fontaine on p-adic Galois representations. (Japanese) (*see* **2000k:11003**)

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Bourgeois, Pierre Annulation et pureté des groupes de cohomologie rigide associés à des sommes exponentielles. (English and French summaries) [Vanishing and purity of rigid cohomology groups associated with exponential sums] **2000j:11092**
Breuil, Christophe Une remarque sur les représentations locales p-adiques et les congruences entre formes modulaires de Hilbert. (English and French summaries) [A remark

on local p-adic Galois representations and congruences between Hilbert modular forms] **2000h:11054**

— Une application de corps des normes. (English and French summaries) [An application of the norm field] **2000f:11157**

Christol, Gilles (*with* Mebkhout, Zoghman) Exposants p-adiques. [p-adic exponents] **2000c:12013**

Colmez, Pierre Théorie d'Iwasawa des représentations de de Rham d'un corps local. [Iwasawa theory of de Rham representations of a local field] **2000f:11077**

Erez, B. Geometric trends in Galois module theory. (English summary) **2000d:11138**

Faltings, Gerd Curves and their fundamental groups (following Grothendieck, Tamagawa and Mochizuki). (English summary) **2000j:14036**

Herr, Laurent Sur la cohomologie galoisienne des corps p-adiques. (English and French summaries) [On the Galois cohomology of p-adic fields] **2000m:11118**

de Jong, Aise Johan Homomorphisms of Barsotti-Tate groups and crystals in positive characteristic. **2000f:14070a**

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Langer, Andreas Local points of motives in semistable reduction. (English summary) **2000d:14024**

Mebkhout, Zoghman *see* **Christol, Gilles, 2000c:12013**

Mochizuki, Shinichi The local pro-p anabelian geometry of curves. **2000j:14037**

Mokrane, Abdellah Farid Quelques remarques sur l'ordinarité. [Some remarks about ordinarity] **2000b:11131**

Nizioł, Wiesława Crystalline conjecture via K-theory. (English and French summaries) **2000e:14010**

Ochiai, Tadashi l-independence of the trace of monodromy. **2000i:14024**

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Shiho, Atsushi Log rigid geometry and crystalline fundamental groups. (Japanese) **2000g:14030**

Somekawa, Mutsuro Log-syntomic regulators and p-adic polylogarithms. (English summary) **2000g:11062**

Taguchi, Yuichiro Introduction to the Fontaine-Mazur conjecture. (Japanese) (*see* **2000k:11003**)

Urfels, Florent ★ Fonctions L p-adiques et variétés abéliennes à multiplication complexe. (French. French summary) [p-adic L-functions and CM-type abelian varieties] **2000c:11093**

14F35 Homotopy theory; fundamental groups [see also 14H30]

Arapura, Donu (*with* Nori, Madhav V.) Solvable fundamental groups of algebraic varieties and Kähler manifolds. (English summary) **2000k:14018**

Morel, Fabien Théorie homotopique des schémas. (English and French summaries) [Homotopy theory of schemes] **2000j:14031**

Nori, Madhav V. *see* **Arapura, Donu, 2000k:14018**

Shiho, Atsushi Log rigid geometry and crystalline fundamental groups. (Japanese) **2000g:14030**

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Campana, Frédéric Connexité abélienne des variétés kählériennes compactes. (English and French summaries) [Abelian connectedness of compact Kähler manifolds] **2000h:32024**

— Quotients résolubles des groupes de Kähler et ensembles de Green-Lazarsfeld. (English and French summaries) [Solvable quotients of Kähler groups and Green-Lazarsfeld loci] **2000h:32025**

Carlson, James A. (*with* Toledo, Domingo) Discriminant complements and kernels of monodromy representations. **2000c:14012**

Kapovich, Michael (*with* Millson, John J.) Moduli spaces of linkages and arrangements. (English summary) **2000g:14019**

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Mochizuki, Shinichi *see* **Nakamura, Hiroaki et al., 2000e:14038**

Naie, Daniel Numerical Campedelli surfaces cannot have the symmetric group as the algebraic fundamental group. (English summary) **2000f:14055**

Nakamura, Hiroaki (*with* Tamagawa, Akio; Mochizuki, Shinichi) Grothendieck's conjectures concerning fundamental groups of algebraic curves. (Japanese) **2000e:14038**

Oda, Takayuki Etale homotopy type of the moduli spaces of algebraic curves. **2000a:14030**

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Toledo, Domingo *see* **Carlson, James A., 2000c:14012**

14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Coleman, Robert F. Duality for the de Rham cohomology of an abelian scheme. (English and French summaries) **2000j:14032**

Hübl, Reinhold (*with* Yekutieli, Amnon) Adelic Chern forms and applications. (English summary) **2000h:14016**

Kachi, Naoki (*with* Matsumoto, Keiji; Mihara, Masateru) The perfectness of the intersection pairings for twisted cohomology and homology groups with respect to rational 1-forms. **2000c:14026**

Matsumoto, Keiji *see* **Kachi, Naoki et al., 2000c:14026**

Mihara, Masateru *see* **Kachi, Naoki et al., 2000c:14026**

Oaku, Toshinori (*with* Takayama, Nobuki) An algorithm for de Rham cohomology groups of the complement of an affine variety via D-module computation. (English summary) **2000i:14026**

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Yekutieli, Amnon *see* **Hübl, Reinhold, 2000h:14016**

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Calderón-Moreno, Francisco J. Logarithmic differential operators and logarithmic de Rham complexes relative to a free divisor. (English and French summaries) **2000g:32010**

Chambert-Loir, Antoine Cohomologie cristalline: un survol. (English and French summaries) [Crystalline cohomology: a survey] **2000d:14023**

Chiarellotto, Bruno Rigid cohomology and invariant cycles for a semistable log scheme. **2000f:14029**

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Colmez, Pierre Intégration sur les variétés p-adiques. (English and French summaries) [Integration on p-adic varieties] **2000e:14026**

Foth, Philip A. Logarithmic forms with twisted coefficients. (English summary) **2000b:32041**

Iovita, Adrian *see* **Coleman, Robert F., 2000e:14023**

Kato, Kazuya (*with* Nakayama, Chikara) Log Betti cohomology, log étale cohomology, and log de Rham cohomology of log schemes over **C**. **2000i:14023**

Kimura, Hironobu (*with* Taneda, Makoto) Analogue of flat basis and cohomological intersection numbers for general hypergeometric functions. (English summary) **2000i:33020**

Malikov, F. G. (*with* Schechtman, Vadim) Chiral de Rham complex. II. **2000j:17035b**

— (*with* Schechtman, Vadim; Vaintrob, Arkady) Chiral de Rham complex. (English summary) **2000j:17035a**

Matsubara, Toshiharu On log Hodge structures of higher direct images. **2000e:32028**

Nakayama, Chikara *see* **Kato, Kazuya, 2000i:14023**

Sabbah, Claude On a twisted de Rham complex. (English summary) **2000c:14014**

Schechtman, Vadim *see* **Malikov, F. G. et al., 2000j:17035a** *and* **2000j:17035b**

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Taneda, Makoto *see* **Kimura, Hironobu, 2000i:33020**

Tsuji, Takeshi Introduction to the theory of Fontaine on p-adic Galois representations. (Japanese) (*see* **2000k:11003**)

Vaintrob, Arkady *see* **Malikov, F. G. et al., 2000j:17035a**

14F42 Motivic cohomology

Geisser, Thomas Motivic cohomology. (English summary) (*see* **2000k:11003**)

Langer, Andreas Local points of motives in semistable reduction. (English summary) **2000d:14024**

Laterveer, Robert Equivariant motives. (English summary) **2000d:14025**

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del Baño Rollin, Sebastian (*with* Navarro Aznar, Vicente) On the motive of a quotient variety. (English summary) **2000d:14009**

Huber, Annette (*with* Kings, Guido) Dirichlet motives via modular curves. (English and French summaries) **2000b:11067**

Kings, Guido *see* **Huber, Annette, 2000b:11067**

Kontsevich, Maxim Operads and motives in deformation quantization. (English summary) **2000j:53119**

Morel, Fabien Suite spectrale d'Adams et invariants cohomologiques des formes quadratiques. (English and French summaries) [Adams spectral sequence and cohomological invariants of quadratic forms] **2000d:11056**

Navarro Aznar, Vicente *see* **del Baño Rollin, Sebastian, 2000d:14009**

Otsubo, Noriyuki Fourth-order Fermat surfaces and Selmer groups. (Japanese) **2000d:11089**

Skorobogatov, A. N. Beyond the Manin obstruction. **2000c:14022**

Somekawa, Mutsuro Log-syntomic regulators and p-adic polylogarithms. (English summary) **2000g:11062**

Wang, Chin-Lung On the topology of birational minimal models. **2000m:14012**

14F43 Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)

Alonso Tarrío, Leovigildo (*with* Jeremías López, Ana; Lipman, Joseph) ★ Studies in duality on Noetherian formal schemes and non-Noetherian ordinary schemes. (English summary) **2000h:14017**

Braden, Tom (*with* MacPherson, Robert) Intersection homology of toric varieties and a conjecture of Kalai. (English summary) **2000h:14018**

— (*with* Grinberg, Mikhail) Perverse sheaves on rank stratifications. **2000f:14031**

Brylinski, Jean-Luc Comparison of the Beilinson-Chern classes with the Chern-Cheeger-Simons classes. **2000b:14024**

— Geometric construction of Quillen line bundles. **2000f:14032**

Esnault, Hélène Algebraic differential characters. **2000k:14019**

Friedlander, Eric M. Algebraic cocycles on normal, quasi-projective varieties. (English summary) **2000a:14024**

— Bloch-Ogus properties for topological cycle theory. (English and French summaries) **2000m:14025**

Grinberg, Mikhail *see* **Braden, Tom, 2000f:14031**

Jeremías López, Ana *see* **Alonso Tarrío, Leovigildo et al., 2000h:14017**

Joshua, Roy Modules over convolution algebras from equivariant derived categories. I. (English summary) **2000a:14025**

Lipman, Joseph *see* **Alonso Tarrío, Leovigildo et al., 2000h:14017**

MacPherson, Robert *see* **Braden, Tom, 2000h:14018**

Rickard, Jeremy An introduction to intersection cohomology. **2000i:14027**

Tsuzuki, Nobuo An introduction to rigid cohomology. (Japanese) (*see* **2000e:14002**)

Weber, Andrzej A morphism of intersection homology and hard Lefschetz. (English summary) **2000j:14033**

— A morphism of intersection homology induced by an algebraic map. (English summary) **2000d:14026**

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Bezrukavnikov, Roman (*with* Finkelberg, M. V.; Schechtman, Vadim) ★ Factorizable sheaves and quantum groups. **2000g:17014**

Brasselet, Jean-Paul Algebraic topology and singularities of toric varieties. **2000h:14043**

Carey, Alan L. (*with* Mickelsson, Jouko; Murray, Michael K.) Bundle gerbes and field theory. **2000j:53101**

Collino, Alberto Indecomposable motivic cohomology classes on quartic surfaces and on cubic fourfolds. (English summary) **2000i:14013**

Delabre, Daniel Comparaison infinitésimale du régulateur de Connes-Karoubi avec une classe de Chern. (English and French summaries) [Infinitesimal comparison of the Connes-Karoubi regulator and a Chern class] **2000k:19002**

Finkelberg, M. V. *see* **Bezrukavnikov, Roman et al., 2000g:17014**

Gajer, Paweł Higher holonomies, geometric loop groups and smooth Deligne cohomology. **2000c:53057**

Gordon, B. Brent (*with* Lewis, James D.) Indecomposable higher Chow cycles on products of elliptic curves. (English summary) **2000d:14003**

Grinberg, Mikhail A generalization of Springer theory using nearby cycles. (English summary) **2000a:20099**

— (*with* MacPherson, Robert) Euler characteristics and Lagrangian intersections. **2000h:32044**

Gyoja, Akihiko Desingularization of Schubert varieties and orbit closures of prehomogeneous vector spaces of commutative parabolic type. (English summary) **2000c:14084**

Lewis, James D. *see* **Gordon, B. Brent, 2000d:14003**

Loeser, François Faisceaux pervers, transformation de Mellin et déterminants. (English and French summaries) [Perverse sheaves, Mellin transform and determinants] **2000a:14022**

MacPherson, Robert *see* **Grinberg, Mikhail, 2000h:32044**

Matsumoto, Keiji Intersection numbers for logarithmic k-forms. **2000b:32051**

Mickelsson, Jouko *see* **Carey, Alan L. et al., 2000j:53101**

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Murty, V. Kumar (*with* Prasad, Dipendra) Tate cycles on a product of two Hilbert modular surfaces. **2000m:14028**

Nelson, Graham The homology of moduli spaces on a Riemann surface as a representation of the mapping class group. **2000e:14013**

Prasad, Dipendra *see* **Murty, V. Kumar, 2000m:14028**

Roessler, Damien Analytic torsion for cubes of vector bundles and Gillet's Riemann-Roch theorem. (English summary) **2000h:14009**

Rosenschon, Andreas Indecomposable elements in K_1 of a smooth projective variety. (English summary) **2000a:14011**

Schechtman, Vadim *see* **Bezrukavnikov, Roman et al., 2000g:17014**

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Lecture Notes in Mathematics *see* **Bezrukavnikov, Roman et al., 2000g:17014**

14F45 Topological properties

Items with secondary classifications in 14F45

Debarre, Olivier On the Euler characteristic of generalized Kummer varieties. (English summary) **2000m:14053**

Katzarkov, Ludmil On the Shafarevich maps. **2000a:14009**

Némethi, András On the Seifert form at infinity associated with polynomial maps. (English summary) **2000a:32068**

Podkorytov, S. S. On the Euler characteristic of a random algebraic hypersurface. (Russian. English and Russian summaries) **2000m:14061**

Tokunaga, Hiro-o Some examples of Zariski pairs arising from certain elliptic $K3$ surfaces. II. Degtyarev's conjecture. **2000b:14044**

14F99 None of the above, but in this section

Items with secondary classifications in 14F99

Alonso Tarrío, Leovigildo (*with* Jeremías López, Ana; Lipman, Joseph) ★ Studies in duality on Noetherian formal schemes and non-Noetherian ordinary schemes. (English summary) **2000h:14017**

Bach, Eric Sheaf cohomology is #P-hard. (English summary) **2000b:14083**

Jeremías López, Ana *see* **Alonso Tarrío, Leovigildo et al., 2000h:14017**

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Contemporary Mathematics *see* **Alonso Tarrío, Leovigildo et al., 2000h:14017**

14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rational points

Billard, Hervé Répartition des points rationnels des surfaces géométriquement réglées rationnelles. (French summary) [Distribution of the rational points of rational geometrically ruled surfaces] **2000a:14026**

Bogomolov, F. A. (*with* Tschinkel, Yu.) On the density of rational points on elliptic fibrations. **2000e:14025**

Mazur, Barry C. Open problems regarding rational points on curves and varieties. **2000g:14031**

Rodríguez Villegas, Fernando (*with* Voloch, José Felipe) On certain plane curves with many integral points. (English summary) **2000b:14025**

Tschinkel, Yu. *see* **Bogomolov, F. A., 2000e:14025**

Voloch, José Felipe *see* **Rodríguez Villegas, Fernando, 2000b:14025**

Items with secondary classifications in 14G05

Ballico, Edoardo (*with* Cossidente, Antonio) On the Hilbert function and the minimal free resolution of the GF(q)-points of del Pezzo surfaces of $\mathbf{P}^n$. (English summary) **2000a:14027**

Batyrev, Victor V. (*with* Tschinkel, Yu.) Tamagawa numbers of polarized algebraic varieties. (English summary) **2000d:11090**

— (*with* Tschinkel, Yu.) Manin's conjecture for toric varieties. (English summary) **2000c:11107**

Beukers, Frits Integral points on cubic surfaces. (English summary) **2000b:11072**

Bombieri, Enrico Subvarieties of linear tori and the unit equation: a survey. **2000e:11086**

Choi, Kwok-Kwong Stephen On the distribution of points in projective space of bounded height. (English summary) **2000j:11102**

Cossidente, Antonio *see* **Ballico, Edoardo, 2000a:14027**

Heath-Brown, D. R. Counting rational points on cubic surfaces. (English summary) **2000a:11042**

— (*with* Moroz, B. Z.) The density of rational points on the cubic surface $X_0^3 = X_1X_2X_3$. **2000f:11080**

— The solubility of diagonal cubic Diophantine equations. **2000f:11032**

Hindry, Marc (*with* Silverman, Joseph H.) Sur le nombre de points de torsion rationnels sur une courbe elliptique. (English and French summaries) [On the number of rational torsion points on an elliptic curve] **2000g:11047**

Lauter, Kristin Non-existence of a curve over $\mathbf{F}_3$ of genus 5 with 14 rational points. (English summary) **2000c:11096**

Lenstra, H. W., Jr. Rational points on algebraic surfaces. (Dutch. Dutch summary)

Mazur, Barry C. Visualizing elements of order three in the Shafarevich-Tate group. **2000g:11048**

Moroz, B. Z. On the integer points of an affine toric variety (general case). **2000e:11081**

— *see also* **Heath-Brown, D. R., 2000f:11080**

Morton, Patrick Arithmetic properties of periodic points of quadratic maps. II. **2000c:11103**

Niederreiter, Harald *see* **Xing, Chao-Ping, 2000a:11088**

Pacelli, Patricia L. Some uniformity results following from the Lang conjectures. (English summary) **2000b:11071**

Peyre, Emmanuel Terme principal de la fonction zêta des hauteurs et torseurs universels. (French summary) [Principal term of the zeta function of heights and universal torsors] **2000f:11081**

Poonen, Bjorn (*with* Stoll, Michael) A local-global principle for densities. (English summary) **2000e:11082**

Rémond, Gaël Hauteurs thêta et construction de Kodaira. (English and French summaries) [Theta heights and the Kodaira construction] **2000g:11059**

Salberger, Per Tamagawa measures on universal torsors and points of bounded height on Fano varieties. (English summary) **2000d:11091**

Sato, Atsushi² On the distribution of rational points on certain Kummer surfaces. **2000b:11073**

Scanlon, Thomas Warren The conjecture of Tate and Voloch on p-adic proximity to torsion. **2000i:11100**

Silverman, Joseph H. *see* **Hindry, Marc, 2000g:11047**

Slater, John B. (*with* Swinnerton-Dyer, H. P. F.) Counting points on cubic surfaces. I. (English summary) **2000d:11087**

Stoll, Michael *see* **Poonen, Bjorn, 2000e:11082**

Swinnerton-Dyer, H. P. F. *see* **Slater, John B., 2000d:11087**

Tschinkel, Yu. *see* **Batyrev, Victor V., 2000c:11107** *and* **2000d:11090**

Vojta, Paul Integral points on subvarieties of semiabelian varieties. II. (English summary) **2000d:11074**

Waldschmidt, Michel Density measure of rational points on abelian varieties. (English summary) **2000h:11077**

Wang, Julie Tzu-Yueh Integral points of projective spaces omitting hyperplanes over function fields of positive characteristic. (English summary) **2000g:11061**

Xing, Chao-Ping (*with* Niederreiter, Harald) Drinfeld modules of rank 1 and algebraic curves with many rational points. (English summary) **2000a:11088**

14G10 Zeta-functions and related questions [see also 11G40] (Birch-Swinnerton-Dyer conjecture)

Items with secondary classifications in 14G10

Batyrev, Victor V. (*with* Tschinkel, Yu.) Tamagawa numbers of polarized algebraic varieties. (English summary) **2000d:11090**

Chambert-Loir, Antoine Cohomologie cristalline: un survol. (English and French summaries) [Crystalline cohomology: a survey] **2000d:14023**

Colmez, Pierre Théorie d'Iwasawa des représentations de de Rham d'un corps local. [Iwasawa theory of de Rham representations of a local field] **2000f:11077**

Erez, B. Geometric trends in Galois module theory. (English summary) **2000d:11138**

Goncharov, A. B. Mixed elliptic motives. **2000e:11084**

Ihara, Yasutaka The Grothendieck-Teichmüller group and the adelic beta function. (Japanese) **2000e:11078**

Katz, Nicholas M. (*with* Sarnak, Peter) ★ Random matrices, Frobenius eigenvalues, and monodromy. (English summary) **2000b:11070**

Kimura, Ken-ichiro An example of algebraic cycles with nontrivial Abel-Jacobi images. (English summary) **2000m:14009**

Lauter, Kristin Improved upper bounds for the number of rational points on algebraic curves over finite fields. (English and French summaries) **2000e:11079**

Merel, Loïc Points rationnels et séries de Dirichlet. [Rational points and Dirichlet series] **2000a:11085**

Ochiai, Tadashi On operators of local Weil groups and their traces. (Japanese) (*see* **2000k:11003**)

Peyre, Emmanuel Terme principal de la fonction zêta des hauteurs et torseurs universels. (French summary) [Principal term of the zeta function of heights and universal torsors] **2000f:11081**

Sarnak, Peter *see* **Katz, Nicholas M., 2000b:11070**

Soulé, Christophe K-theory and values of zeta functions. **2000g:11063**
Tschinkel, Yu. *see* **Batyrev, Victor V., 2000d:11090**

14G15 Finite ground fields

Ballico, Edoardo (*with* Cossidente, Antonio) On the Hilbert function and the minimal free resolution of the GF(q)-points of del Pezzo surfaces of $\mathbf{P}^n$. (English summary) **2000a:14027**
Cossidente, Antonio (*with* Korchmáros, Gábor; Torres, Fernando) On curves covered by the Hermitian curve. (English summary) **2000c:14027**
— *see also* **Ballico, Edoardo, 2000a:14027**
Garcia, Arnaldo (*with* Torres, Fernando) On maximal curves having classical Weierstrass gaps. (English summary) **2000m:14026**
Korchmáros, Gábor *see* **Cossidente, Antonio et al., 2000c:14027**
Torres, Fernando *see* **Cossidente, Antonio et al., 2000c:14027** *and* **Garcia, Arnaldo, 2000m:14026**

Items with secondary classifications in 14G15

Abdón, Miriam (*with* Torres, Fernando) On maximal curves in characteristic two. (English summary) **2000h:11064**
Adolphson, Alan (*with* Sperber, Steven) On the degree of the zeta function of a complete intersection. (English summary) **2000k:11075**
Chinburg, Ted (*with* Kolster, Manfred; Pappas, Georgios; Snaith, V.) Nearly perfect complexes and Galois module structure. (English summary) **2000i:19014**
DiPippo, Stephen A. (*with* Howe, Everett W.) Real polynomials with all roots on the unit circle and abelian varieties over finite fields. (English summary) **2000c:11101**
Erez, B. Geometric trends in Galois module theory. (English summary) **2000d:11138**
(Fried, Michael D.) *see* **Applications of curves over finite fields, 2000j:11004**
Fu, Lei[1] On the semisimplicity of pure sheaves. (English summary) **2000a:14021**
Fuji-Hara, Ryoh (*with* Shinohara, Satoshi) Algebraic curves and balanced n-ary designs. (English summary) (*see* **2000m:05002**)
Galbraith, Steven Elliptic curve public key cryptography. **2000d:94022**
Garcia, Arnaldo (*with* Stichtenoth, Henning; Xing, Chao-Ping) On subfields of the Hermitian function field. (English summary) **2000j:11175**
van der Geer, Gerard (*with* van der Vlugt, Marcel) Generalized Reed-Muller codes and curves with many points. (English summary) **2000f:94047**
Gonzàlez Rovira, Josep Fermat Jacobians of prime degree over finite fields. (English summary) **2000h:11065**
Howe, Everett W. *see* **DiPippo, Stephen A., 2000c:11101**
Huang, Ming-Deh A. (*with* Xing, Chao-Ping) Some computational problems of cryptographic significance concerning elliptic curves over rings. **2000f:11162**
James, Glyn *see* **Yan, Song Y., 2000e:11155**
Kolster, Manfred *see* **Chinburg, Ted et al., 2000i:19014**
Lauter, Kristin Improved upper bounds for the number of rational points on algebraic curves over finite fields. (English and French summaries) **2000e:11079**
Lin, Jun A property of polynomial functions over fields and its appplications. (Chinese. English and Chinese summaries)
McKee, J. F. Subtleties in the distribution of the numbers of points on elliptic curves over a finite prime field. (English summary) **2000g:11055**
Niederreiter, Harald (*with* Xing, Chao-Ping) Algebraic curves over finite fields with many rational points. (English summary) **2000d:11082**
— (*with* Xing, Chao-Ping) Towers of global function fields with asymptotically many rational places and an improvement on the Gilbert-Varshamov bound. (English summary) **2000f:11151**
— *see also* **Xing, Chao-Ping, 2000a:11088**
Pappas, Georgios *see* **Chinburg, Ted et al., 2000i:19014**
Pretzel, Oliver ★ Codes and algebraic curves. **2000c:11098**
Rück, Hans-Georg On the discrete logarithm in the divisor class group of curves. (English summary) **2000c:11099**
Shinohara, Satoshi *see* **Fuji-Hara, Ryoh, (2000m:05002)**
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14G22 Rigid analytic geometry

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14G32 Universal profinite groups (relationship to moduli spaces, projective and moduli towers, Galois theory)

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14G35 Modular and Shimura varieties [see also 11F41, 11F46, 11G18]

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Rémond, Gaël Hauteurs thêta et construction de Kodaira. (English and French summaries) [Theta heights and the Kodaira construction] **2000g:11059**
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14G50 Applications to coding theory and cryptography [see also 94A60, 94B27, 94B40]

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Voloch, José Felipe (*with* Walker, Judy L.) Codes over rings from curves of higher genus. (English summary) **2000m:94045**
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14G99 None of the above, but in this section

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14Hxx Curves

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14H05 Algebraic functions; function fields [see also 11R58]

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14H10 Families, moduli (algebraic)

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14H37 Automorphisms

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14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

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14H51 Special divisors (gonality, Brill-Noether theory)

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14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

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14H60 Vector bundles on curves and their moduli [see also 14D20, 14F05]

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— (*with* Chiantini, Luca) A look into the Severi varieties of curves in higher codimension. (English summary) **2000h:14025**
— Exact sequences of stable vector bundles on nodal curves. (English summary) **2000e:14045**
— Stable bundles on projective curves: their filtrations and their subbundles. (English summary) **2000e:14046**
— Decomposable subbundles of polystable vector bundles on projective curves. (English summary) **2000g:14042**
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Bhosle, Usha N. Generalized parabolic bundles and applications. II. (English summary) **2000i:14048**
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— *see also* **Russo, Barbara, 2000d:14039**
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14H70 Relationships with integrable systems

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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

14J10 Families, moduli, classification: algebraic theory

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14J15 Moduli, classification: analytic theory; relations with modular forms [see also 32G13]

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14J17 Singularities [see also 14B05, 14E15]

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14J20 Arithmetic ground fields [see also 11Dxx, 11G25, 11G35, 14Gxx]

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14J25 Special surfaces {For Hilbert modular surfaces, see 14G35.}

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14J26 Rational and ruled surfaces

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14J27 Elliptic surfaces

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14J32 Calabi-Yau manifolds, mirror symmetry

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14J40 n-folds ($n > 4$)

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14J50 Automorphisms of surfaces and higher-dimensional varieties

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14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli [see also 14D20, 14F05, 32Lxx]

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14J80 Topology of surfaces (Donaldson polynomials, Seiberg-Witten invariants)

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14Kxx Abelian varieties and schemes

14K02 Isogeny

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14K05 Algebraic theory

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14K10 Algebraic moduli, classification [see also 11G15]

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14K12 Subvarieties

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14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

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14K20 Analytic theory; abelian integrals and differentials

Elsner, Bernhard Hyperelliptic action integral. (English and French summaries) **2000f:14069**
Umeno, Takashi Positive line bundles on quasi-abelian varieties: 2-dimensional cases. (English summary) **2000c:14066**

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Fedorov, Yu. N. Classical integrable systems and billiards related to generalized Jacobians. (English summary) **2000c:37081**
Girard, Frédéric (*with* Jebrane, Moulay-Ahmed) Majorations affines du nombre de zéros d'intégrales abéliennes pour les hamiltoniens quartiques elliptiques. (English and French summaries) [Affine upper bounds for the number of zeros of abelian integrals for elliptic quartic Hamiltonians] **2000i:34066**
González-Aguilera, Víctor *see* **Birkenhake, Ch. et al., 2000c:32071**
Hurtubise, J. C. Some algebraic geometry of integrable systems. **2000e:14051**
Jebrane, Moulay-Ahmed *see* **Girard, Frédéric, 2000i:34066**
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Takayama, Shigeharu Adjoint linear series on weakly 1-complete Kähler manifolds. II. Lefschetz type theorem on quasi-abelian varieties. **2000d:32037**

14K22 Complex multiplication [see also 11G15]

Ônishi, Yoshihiro Complex multiplication formulae for hyperelliptic curves of genus three. **2000d:14050**
Runge, Bernhard On algebraic families of polarized abelian varieties. **2000m:14048**
Yanai, Hiromichi On the Hodge cycle of CM types. (Japanese) (*see* **2000k:11003**)

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Moonen, B. J. J. (*with* Zarkhin, Yu. G.) Hodge classes on abelian varieties of low dimension. **2000j:14018**
Polishchuk, Alexander Theta identities with complex multiplication. **2000k:14036**
Runge, Bernhard Endomorphism rings of abelian surfaces and projective models of their moduli spaces. (English summary) **2000g:14056**
van Wamelen, Paul Proving that a genus 2 curve has complex multiplication. (English summary) **2000a:14033**
Zarkhin, Yu. G. *see* **Moonen, B. J. J., 2000j:14018**

14K25 Theta functions [see also 14H42]

Polishchuk, Alexander Theta identities with complex multiplication. **2000k:14036**

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Fedorov, Yu. N. Classical integrable systems and billiards related to generalized Jacobians. (English summary) **2000c:37081**
Iyer, Jaya N. Projective normality of abelian surfaces given by primitive line bundles. (English summary) **2000b:14056**
Klein, Christian (*with* Richter, Olaf) Riemann-Hilbert problems for the Ernst equation and fibre bundles. (English summary) **2000h:83016**
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Romanovskiĭ, R. K. (*with* Sadovnichuk, S. G.) A special addition theorem for theta functions, and nonlinear equations. (Russian. Russian summary) **2000e:14052**
— (*with* Sadovnichuk, S. G.) A direct method for constructing two-gap solutions of nonlinear equations. (Russian. Russian summary) **2000i:37127**
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Sasaki, Ryuji An arithmetic of modular function fields of degree two. (English summary) **2000k:11074**
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14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

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van der Geer, Gerard The Chow ring of the moduli space of abelian threefolds. (English summary) **2000b:14009**
Iliev, Atanas Iliev Minimal sections of conic bundles. (Italian summary) **2000i:14058**
— (*with* Markushevich, D. G.) The Abel-Jacobi map for a cubic threefold and periods of Fano threefolds of degree 14. (English summary) **2000m:14042**
Iskovskikh, Vasiliĭ Alekseevich (*with* Prokhorov, Yu. G.) Fano varieties. **2000b:14051b**
Izadi, E. A Prym construction for the cohomology of a cubic hypersurface. **2000i:14064**
Markushevich, D. G. *see* **Iliev, Atanas Iliev, 2000m:14042**
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14K99 None of the above, but in this section

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Marker, David Strongly minimal sets and geometry. (English summary) **2000f:03104**
Noguchi, Junjiro On holomorphic curves in semi-abelian varieties. **2000a:32034**
Scanlon, Thomas Warren (*with* Voloch, José Felipe) Difference algebraic subgroups of commutative algebraic groups over finite fields. (English summary) **2000i:12009**
Voloch, José Felipe *see* **Scanlon, Thomas Warren, 2000i:12009**

14Lxx Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

Childs, Lindsay N. (*with* Greither, Cornelius; Moss, David J.; Sauerberg, Jim; Zimmermann, Karl Frederic) Hopf algebras, polynomial formal groups, and Raynaud orders. (English summary) **2000c:14067**

Gorbunov, V. G. (*with* Mahowald, Mark E.) Formal completion of the Jacobians of plane curves and higher real K-theories. (English summary) **2000k:14037**

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de Jong, Aise Johan Homomorphisms of Barsotti-Tate groups and crystals in positive characteristic. **2000f:14070a**

— Erratum: "Homomorphisms of Barsotti-Tate groups and crystals in positive characteristic". **2000f:14070b**

— A result on formal linearity. **2000m:14049**

— (*with* Oort, Frans) Purity of the stratification by Newton polygons. **2000m:14050**

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Sauerberg, Jim *see* **Childs, Lindsay N. et al., 2000c:14067**

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Abrashkin, V. A. The image of the Galois group for some crystalline representations. (Russian. Russian summary) **2000g:11107**

Bluher, Antonia W. Formal groups, elliptic curves, and some theorems of Couveignes. (English summary) **2000k:11070**

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Tsuji, Takeshi Introduction to the theory of Fontaine on p-adic Galois representations. (Japanese) (*see* **2000k:11003**)

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14L10 Group varieties

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Nguyễn Quôc Thắng A remark on pattern problems for matrix groups. (English summary) **2000b:14059**

Platonov, Vladimir Petrovich Rationality problems for group varieties. **2000f:14071**

Uzawa, Tohru Compactifications of symmetric varieties and applications to representation theory. **2000i:14066**

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— Rationality of almost simple algebraic groups. (English summary) **2000j:20087**

Parshin, A. N. Vector bundles and arithmetic groups. I. (Russian) **2000j:20090**

14L15 Group schemes

Buium, Alexandru Differential subgroups of simple algebraic groups over p-adic fields. (English summary) **2000e:14079**

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Items with secondary classifications in 14L15

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Conrad, Brian Ramified deformation problems. **2000h:11055**

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Kamienny, S. (*with* Wetherell, J. L.) On étale covers of curves. (English summary) **2000c:11092**

Liu, Qing[1] *see* **Bosch, Siegfried, 2000i:11094**

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Pianzola, A. Free group functors. (English summary) **2000e:17007**

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Wetherell, J. L. *see* **Kamienny, S., 2000c:11092**

Zimmermann, Karl Frederic *see* **Childs, Lindsay N. et al., 2000c:14067**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Sekiguchi, Tsutomu (*with* Suwa, Noriyuki) On the extensions of $\mathscr{W}_{n,A}$ by $\mathbf{G}_{m,A}$. **2000g:14057**

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Items with secondary classifications in 14L17

Garland, Howard The arithmetic theory of loop groups. II. The Hilbert-modular case. (English summary) **2000h:20088**

14L24 Geometric invariant theory [see also 13A50]

Dolgachev, Igor V. (*with* Hu, Yi) Variation of geometric invariant theory quotients. (English summary) **2000b:14060**

Hu, Yi *see* **Dolgachev, Igor V., 2000b:14060**

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Zaitsev, Dmitri Configurations of linear subspaces and rational invariants. **2000a:14055**

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Daoudi, M. Orbitality and vector bundles. (English summary) **2000i:14069**

Gokhman, A. O. The anisotropic nature of lowering smoothness in the representation of differentiable invariants of groups generated by reflections. (Russian) **2000h:58073**

Hamm, H. A. Very good quotients of toric varieties. **2000i:14074**

Hu, Yi Moduli spaces of stable polygons and symplectic structures on $\overline{\mathscr{M}}_{0,n}$. (English summary) **2000g:14018**

Levasseur, T. (*with* Ushirobira, R.) Adjoint vector fields on the tangent space of semisimple symmetric spaces. (English summary) **2000j:17010**

Okonek, Christian (*with* Teleman, Andrei) Master spaces and the coupling principle: from geometric invariant theory to gauge theory. (English summary) **2000f:14016**

Osipov, D. V. The Krichever mapping and (semi)stable sheaves on curves. (Russian) **2000m:14036**

Panyushev, D. I. On actions of a maximal torus on orbits of highest weight vectors. **2000f:14073**

Senthamarai Kannan, S. Remarks on the wonderful compactification of semisimple algebraic groups. (English summary) **2000f:14074**

Shmel'kin, D. A. On quotient manifolds with an isolated singularity. (Russian. Russian summary) **2000e:14082**

Teleman, Andrei *see* **Okonek, Christian, 2000f:14016**

Thaddeus, Michael Complete collineations revisited. **2000j:14081**

Ushirobira, R. *see* **Levasseur, T., 2000j:17010**

14L30 Group actions on varieties or schemes (quotients) [see also 13A50, 14L24]

Arabia, Alberto Classes d'Euler équivariantes et points rationnellement lisses. (English and French summaries) [Equivariant Euler classes and rationally smooth points] **2000b:14061**

van den Bergh, Michel Local cohomology of modules of covariants. (English summary) **2000d:14051**

Bobiński, Grzegorz (*with* Skowroński, Andrzej) Geometry of modules over tame quasi-tilted algebras. **2000i:14067**

Brion, Michel On the general faces of the moment polytope. **2000i:14068**

— Rational smoothness and fixed points of torus actions. (English summary) **2000f:14072**

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Deveney, James K. (*with* Finston, David R.) Determining local triviality of $\mathbf{G}_a$ actions. (English summary) **2000c:14070**

— (*with* Finston, David R.) Free G_a actions on $\mathbf{C}^3$. (English summary) **2000c:14069**

Finston, David R. *see* **Deveney, James K., 2000c:14069** *and* **2000c:14070**

Hassett, Brendan (*with* Tschinkel, Yu.) Geometry of equivariant compactifications of $\mathbf{G}_a^n$. **2000j:14073**

Le Bruyn, Lieven (*with* Seelinger, George F.) Fibers of generic Brauer-Severi schemes. (English summary) **2000h:14039**

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Bröcker, Ludwig On symmetric semialgebraic sets and orbit spaces. (English summary) **2000b:14076**

Brown, Gavin[2] Flips arising as quotients of hypersurfaces. **2000f:14018**

Chernousov, Vladimir Galois cohomology and weak approximation for the quotient manifolds A^n/G. (Russian) **2000j:11094**

Crass, Scott Solving the sextic by iteration: a study in complex geometry and dynamics. (English summary) **2000j:14088**

Dotti, Gustavo Non-supersymmetric vacua and the D-flatness condition. (English summary) **2000g:81118**

Iozzi, Alessandra (*with* Poritz, Jonathan A.) Boundary compactifications of $\mathrm{SL}(2,\mathbf{R})$ and $\mathrm{SL}(2,\mathbf{C})$. (English summary) **2000i:32039**

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Megyesi, G. The rationality of configuration spaces of lines in $\mathbf{P}^3$. **2000j:14085**
Navarro Aznar, Vicente *see* **del Baño Rollin, Sebastian, 2000d:14009**
Panyushev, D. I. On spherical nilpotent orbits and beyond. (English and French summaries) **2000i:14072**
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Poritz, Jonathan A. *see* **Iozzi, Alessandra, 2000i:32039**
Riedtmann, Christine Geometry of modules: degenerations. (English summary) **2000b:16025**
Ringel, Claus Michael The preprojective algebra of a tame quiver: the irreducible components of the module varieties. (English summary) **2000b:16028**
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Silverman, Joseph H. The space of rational maps on $\mathbf{P}^1$. **2000m:14010**
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Sridharan, Ramaiyengar *see* **Parimala, R. et al., 2000m:17035**
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Zwara, Grzegorz *see* **Skowroński, Andrzej, 2000m:16018**

14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

Items with secondary classifications in 14L35

Broussous, Paul Immeuble du groupe linéaire sur une algèbre à division et centralisateurs. (English and French summaries) [Building of the general linear group over a division algebra and centralizers] **2000g:20054**
Feng, Rong Quan Another construction of Cartesian authentication codes from geometry of classical groups. (English summary) **2000h:94035**

14L99 None of the above, but in this section

Junker, Markus Completeness in Zariski groups. (English summary) **2000j:14075**

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13F45, 13H10]

Bresinsky, Henrik (*with* Stückrad, Jürgen) Quasi-complete intersections of monomial curves in projective three-space. (English summary) **2000h:14042**
Brodmann, Markus Cohomology of certain projective surfaces with low sectional genus and degree. **2000j:14076**
Geramita, Anthony V. Catalecticant varieties. **2000f:14075**
Kawasaki, Takesi On Macaulayfication of local rings—in the case of dim non-CM ≤ 2. (English summary) **2000a:14057**
— On Macaulayfication of Noetherian schemes. (English summary) **2000j:14077**
Nagel, Uwe Arithmetically Buchsbaum divisors on varieties of minimal degree. (English summary) **2000a:14058**
Schlesinger, Enrico On the spectrum of certain subschemes of $\mathbf{P}^N$. (English summary) **2000i:14070**
Stückrad, Jürgen *see* **Bresinsky, Henrik, 2000h:14042**

Items with secondary classifications in 14M05

Ballico, Edoardo (*with* Chiarli, Nadia; Greco, Silvio) Projective schemes with degenerate general hyperplane section. (English summary) **2000i:14042**
Bermejo Díaz, Isabel (*with* Gimenez, Philippe) On Castelnuovo-Mumford regularity of projective curves. (English summary) **2000j:13022**
Chiarli, Nadia *see* **Ballico, Edoardo et al., 2000i:14042**
Eisenbud, David (*with* Popescu, Sorin) Gale duality and free resolutions of ideals of points. **2000i:13014**
Ellia, Philippe (*with* Sarti, A.) On codimension two k-Buchsbaum subvarieties of $\mathbf{P}^n$. **2000j:14078**
Fukui, Toshizumi (*with* Weyman, Jerzy) Cohen-Macaulay properties of Thom-Boardman strata. I. Morin's ideal. **2000j:58062**
Geramita, Anthony V. (*with* Harima, Tadahito; Shin, Yong Su) Extremal point sets and Gorenstein ideals. **2000h:13011**
Gimenez, Philippe *see* **Bermejo Díaz, Isabel, 2000j:13022**
Gimigliano, Alessandro (*with* Lorenzini, A.) Blowing up determinantal space curves and varieties of codim 2. **2000b:14063**
Greco, Silvio *see* **Ballico, Edoardo et al., 2000i:14042**
Harima, Tadahito *see* **Geramita, Anthony V. et al., 2000h:13011**
Hübl, Reinhold (*with* Sun, Xiaotao) Vector bundles on the projective line over a discrete valuation ring and the cohomology of canonical sheaves. **2000e:14049**
Lorenzini, A. *see* **Gimigliano, Alessandro, 2000b:14063**
Mehta, Vikram (*with* Trivedi, Vijaylaxmi) The variety of circular complexes and F-splitting. **2000h:14040**
— (*with* Trivedi, Vijaylaxmi) Variety of complexes and F-splitting. **2000d:14054**
Migliore, Juan C. (*with* Nagel, Uwe; Peterson, Chris) Buchsbaum-Rim sheaves and their multiple sections. (English summary) **2000f:14076**
Nagel, Uwe *see* **Migliore, Juan C. et al., 2000f:14076**
Nollet, Scott Bounds on multisecant lines. (English summary) **2000c:14072**
Peterson, Chris *see* **Migliore, Juan C. et al., 2000f:14076**
Popescu, Sorin *see* **Eisenbud, David, 2000i:13014**
Sarti, A. *see* **Ellia, Philippe, 2000j:14078**
Shin, Yong Su *see* **Geramita, Anthony V. et al., 2000h:13011**
Sun, Xiaotao *see* **Hübl, Reinhold, 2000e:14049**
Trivedi, Vijaylaxmi *see* **Mehta, Vikram, 2000d:14054** *and* **2000h:14040**
Valenzano, Mario Hilbert function and numerical invariants of closed subschemes of $\mathbf{P}^n$. **2000i:13020**
Weyman, Jerzy *see* **Fukui, Toshizumi, 2000j:58062**

14M06 Linkage [see also 13C40]

Migliore, Juan C. ★ Introduction to liaison theory and deficiency modules. (English summary) **2000g:14058**
— (*with* Nagel, Uwe; Peterson, Chris) Buchsbaum-Rim sheaves and their multiple sections. (English summary) **2000f:14076**
Nagel, Uwe *see* **Migliore, Juan C. et al., 2000f:14076**
Peterson, Chris *see* **Migliore, Juan C. et al., 2000f:14076**

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Progress in Mathematics *see* **Migliore, Juan C., 2000g:14058**

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Buraggina, Antonella Biliaison classes of rank two reflexive sheaves on $\mathbf{P}^3$. (English summary) **2000f:14064**
Coudurier, Laurence (*with* Morales, Marcel) Classification des courbes toriques dans l'espace projectif, module de Rao et liaison. [Classification of toric curves in projective space, Rao module and linkage] **2000a:14036**
Hartshorne, Robin Coherent functors. (English summary) **2000a:14018**
Migliore, Juan C. Gorenstein liaison via divisors. **2000m:13018**
Morales, Marcel *see* **Coudurier, Laurence, 2000a:14036**
Nagel, Uwe Even liaison classes generated by Gorenstein linkage. **2000a:13022**
Nollet, Scott Bounds on multisecant lines. (English summary) **2000c:14072**
Valenzano, Mario Hilbert function and numerical invariants of closed subschemes of $\mathbf{P}^n$. **2000i:13020**

14M07 Low codimension problems

De Candia, A. C. (*with* Ellia, Philippe) Some classes of non-general type codimension two subvarieties in $\mathbf{P}^n$. (English and Italian summaries) **2000b:14062**
Ellia, Philippe (*with* Sarti, A.) On codimension two k-Buchsbaum subvarieties of $\mathbf{P}^n$. **2000j:14078**
— *see also* **De Candia, A. C., 2000b:14062**
Gimigliano, Alessandro (*with* Lorenzini, A.) Blowing up determinantal space curves and varieties of codim 2. **2000b:14063**
Lorenzini, A. *see* **Gimigliano, Alessandro, 2000b:14063**
Sarti, A. *see* **Ellia, Philippe, 2000j:14078**

Items with secondary classifications in 14M07

Ciliberto, Ciro (*with* Hulek, Klaus) A series of smooth irregular varieties in projective space. (English summary) **2000i:14080**
Fania, Maria Lucia (*with* Ottaviani, Giorgio) Boundedness for codimension two submanifolds of quadrics. (English summary) **2000a:14045**
Hulek, Klaus *see* **Ciliberto, Ciro, 2000i:14080**
Kwak, Si-Jong Castelnuovo-Mumford regularity bound for smooth threefolds in $\mathbf{P}^5$ and extremal examples. (English summary) **2000e:14064**
Ohno, Masahiro On degenerate secant varieties whose Gauss maps have the largest images. (English summary) **2000f:14084**
Ottaviani, Giorgio *see* **Fania, Maria Lucia, 2000a:14045**

14M10 Complete intersections [see also 13C40]

Landsberg, Joseph M. On the local differential geometry of complete intersections. (*see* **2000f:58004**)

Items with secondary classifications in 14M10

Catalisano, Maria Virginia (*with* Gimigliano, Alessandro) Construction and resolutions of certain projectively normal curves. (English summary) **2000a:14035**
Gimigliano, Alessandro *see* **Catalisano, Maria Virginia, 2000a:14035**
Ko, Hyoung June (*with* Shin, Yong Su) Unimodal sequences of Gorenstein ideals of codimension 4. (English summary) **2000f:13034**
Otwinowska, Anna Remarques sur les cycles de petite dimension de certaines intersections complètes. (English and French summaries) [Remarks on the cycles of small dimension of certain complete intersections] **2000g:14008**
Shin, Yong Su *see* **Ko, Hyoung June, 2000f:13034**

14M12 Determinantal varieties [see also 13C40]

Pucci, Mario The Veronese variety and catalecticant matrices. (English summary) **2000c:14071**
Sumihiro, Hideyasu Determinantal varieties associated to rank two vector bundles on projective spaces and splitting theorems. (English summary) **2000f:14077**

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Fukui, Toshizumi (*with* Weyman, Jerzy) Cohen-Macaulay properties of Thom-Boardman strata. I. Morin's ideal. **2000j:58062**
Medvedeva, L. B. (*with* Pushkova, Yu. A.) On the center manifold of the projection of $\mathbf{P}^n$ onto $\mathbf{P}^{n-3}$. (Russian) **2000i:14075**
Mehta, Vikram (*with* Trivedi, Vijaylaxmi) Variety of complexes and F-splitting. **2000d:14054**
Pushkova, Yu. A. *see* **Medvedeva, L. B., 2000i:14075**
Trivedi, Vijaylaxmi *see* **Mehta, Vikram, 2000d:14054**
Weyman, Jerzy *see* **Fukui, Toshizumi, 2000j:58062**

Yan, Zhao Minimal resultant systems. **2000d:14022**

14M15 Grassmannians, Schubert varieties, flag manifolds [see also 32M10, 51M35]

Arrondo, Enrique The universal rank-$(n-1)$ bundle on $G(1,n)$ restricted to subvarieties. (English summary) **2000e:14083**
Brion, Michel (*with* Polo, Patrick) Generic singularities of certain Schubert varieties. (English summary) **2000f:14078**
Gyoja, Akihiko Desingularization of Schubert varieties and orbit closures of prehomogeneous vector spaces of commutative parabolic type. (English summary) **2000e:14084**
Magyar, Peter Schubert polynomials and Bott-Samelson varieties. (English summary) **2000e:14085**
Pittie, Harsh (*with* Ram, Arun) A Pieri-Chevalley formula in the K-theory of a G/B-bundle. (English summary) **2000d:14052**
Polo, Patrick Construction de polynômes de Kazhdan-Lusztig arbitraires. (English and French summaries) [Construction of arbitrary Kazhdan-Lusztig polynomials] **2000a:14059**
— Construction of arbitrary Kazhdan-Lusztig polynomials in symmetric groups. (English summary) **2000j:14079**
— *see also* **Brion, Michel, 2000f:14078**
Ram, Arun *see* **Pittie, Harsh, 2000d:14052**
Rietsch, Konstanze An algebraic cell decomposition of the nonnegative part of a flag variety. (English summary) **2000e:14086**
Sottile, Frank Real rational curves in Grassmannians. **2000j:14080**
Springer, Tonny A. Schubert varieties and generalizations. (English summary) **2000d:14053**
Thaddeus, Michael Complete collineations revisited. **2000j:14081**

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del Angel R., Pedro Luis Deformations of complex hypersurfaces on G/P and an infinitesimal Torelli theorem. (English summary) **2000d:14013**
Arabia, Alberto Classes d'Euler équivariantes et points rationnellement lisses. (English and French summaries) [Equivariant Euler classes and rationally smooth points] **2000b:14061**
Arrondo, Enrique (*with* Graña, B.) Vector bundles on $G(1,4)$ without intermediate cohomology. **2000e:14069**
Bergeron, Nantel (*with* Sottile, Frank) Schubert polynomials, the Bruhat order, and the geometry of flag manifolds. **2000d:05127**
Billey, Sara C. Kostant polynomials and the cohomology ring for G/B. **2000a:14060**
Brion, Michel Rational smoothness and fixed points of torus actions. (English summary) **2000f:14072**
Buch, Anders Skovsted (*with* Fulton, William) Chern class formulas for quiver varieties. **2000f:14087**
Ciocan-Fontanine, Ionuţ On quantum cohomology rings of partial flag varieties. **2000d:14058**
— The quantum cohomology ring of flag varieties. (English summary) **2000b:14072**
Díaz-Leal, Héctor (*with* Martínez-Bernal, José) Semistandard k-tableaux: covering relations. (English summary) **2000i:05187**
Ferrara Dentice, Eva (*with* Melone, Nicola) On isomorphisms between Grassmann spaces. (Italian. English summary) **2000j:51002**
Fioresi, R. Quantum deformation of the flag variety. (English summary) **2000k:20065**
Fulton, William *see* **Buch, Anders Skovsted, 2000f:14087**
Graña, B. *see* **Arrondo, Enrique, 2000e:14069**
Huber, Birkett (*with* Sottile, Frank; Sturmfels, Bernd) Numerical Schubert calculus. (English summary) **2000i:14079**
Kasman, Alex Grassmannians, nonlinear wave equations and generalized Schur functions. (English summary) **2000j:37102**
Kim, Meeyoung (*with* Manivel, Laurent) On branched coverings of some homogeneous spaces. (English summary) **2000c:14020**
Klyachko, Aleksandr Anatol'evich Toric varieties and flag spaces. (Russian) **2000h:14044**
Knutson, Allen (*with* Tao, Terence) The honeycomb model of $\mathrm{GL}_n(\mathbf{C})$ tensor products. I. Proof of the saturation conjecture. (English summary) **2000c:20066**
Kobayashi, Shigeru The submanifold of self-dual codes in a Grassmann manifold. **2000f:94049**
Lafforgue, Laurent Pavages des simplexes, schémas de graphes recollés et compactification des $\mathrm{PGL}_r^{n+1}/\mathrm{PGL}_r$. (English summary) [Pavings of simplices, schemes of graphs that are "pasted together" and compactification of $\mathrm{PGL}_r^{n+1}/\mathrm{PGL}_r$] **2000i:14071**
Lauritzen, Niels (*with* Mehta, Vikram) Differential operators and the Frobenius pull back of the tangent bundle on G/P. (English summary) **2000b:14021**
Lenart, Cristian Noncommutative Schubert calculus and Grothendieck polynomials. (English summary) **2000m:05232**
Lusztig, George Total positivity in partial flag manifolds. (English summary) **2000b:20060**
Manivel, Laurent Sur les hypersurfaces contenant des espaces linéaires. (English and French summaries) [On hypersurfaces containing linear spaces] **2000k:14032**
— *see also* **Kim, Meeyoung, 2000c:14020**
Martínez-Bernal, José Semistandard k-tableaux: elementary operations. (English summary) **2000i:05186**
— *see also* **Díaz-Leal, Héctor, 2000i:05187**
Mehta, Vikram (*with* Trivedi, Vijaylaxmi) Variety of complexes and F-splitting. **2000d:14054**
— *see also* **Lauritzen, Niels, 2000b:14021**
Melone, Nicola *see* **Ferrara Dentice, Eva, 2000j:51002**
Piontkowski, J. (*with* Van de Ven, A.) The automorphism group of linear sections of the Grassmannians $\mathbf{G}(1,N)$. (English summary) **2000j:14065**
Ravi, M. S. (*with* Rosenthal, Joachim; Wang, Xiaochang Alex) Degree of the generalized Plücker embedding of a Quot scheme and quantum cohomology. **2000e:14095**
Rosenthal, Joachim *see* **Ravi, M. S. et al., 2000e:14095**
Shmelev, A. S. Stratifications by the orbits of a symplectic group on flag manifolds. (Russian) **2000g:32036**
Sottile, Frank Pieri's formula via explicit rational equivalence. (English summary) **2000b:14070**
— The special Schubert calculus is real. (English summary) **2000c:14074**
— *see also* **Bergeron, Nantel, 2000d:05127** *and* **Huber, Birkett et al., 2000i:14079**
Sturmfels, Bernd *see* **Huber, Birkett et al., 2000i:14079**
Tamvakis, Harry Schubert calculus on the arithmetic Grassmannian. (English summary) **2000j:14040**
— Arakelov theory of the Lagrangian Grassmannian. (English summary) **2000j:14041**
— Arithmetic intersection theory on flag varieties. **2000j:14042**
Tao, Terence *see* **Knutson, Allen, 2000c:20066**
Trivedi, Vijaylaxmi *see* **Mehta, Vikram, 2000d:14054**
Van de Ven, A. *see* **Piontkowski, J., 2000j:14065**
Wang, Xiaochang Alex *see* **Ravi, M. S. et al., 2000e:14095**
Zelevinsky, Andrei Multisegment duality, canonical bases and total positivity. (English summary) **2000a:05217**

14M17 Homogeneous spaces and generalizations [see also 32M10, 53C30, 57T15]

Akhiezer, D. N. (*with* Vinberg, E. B.) Weakly symmetric spaces and spherical varieties. (English summary) **2000b:14064**
Billey, Sara C. Kostant polynomials and the cohomology ring for G/B. **2000a:14060**
De Concini, Corrado (*with* Springer, Tonny A.) Compactification of symmetric varieties. (English summary) **2000f:14079**
Kaji, Hajime Secant varieties of adjoint varieties. **2000a:14061**
Lafforgue, Laurent Pavages des simplexes, schémas de graphes recollés et compactification des $\mathrm{PGL}_r^{n+1}/\mathrm{PGL}_r$. (English summary) [Pavings of simplices, schemes of graphs that are "pasted together" and compactification of $\mathrm{PGL}_r^{n+1}/\mathrm{PGL}_r$] **2000i:14071**
Landsberg, Joseph M. On the infinitesimal rigidity of homogeneous varieties. (English summary) **2000j:14082**
Magyar, Peter Borel-Weil theorem for configuration varieties and Schur modules. (English summary) **2000e:14087**
Mehta, Vikram (*with* Trivedi, Vijaylaxmi) Variety of complexes and F-splitting. **2000d:14054**
Panyushev, D. I. On spherical nilpotent orbits and beyond. (English and French summaries) **2000i:14072**
Senthamarai Kannan, S. Torus quotients of homogeneous spaces. II. (English summary) **2000f:14080**
Springer, Tonny A. *see* **De Concini, Corrado, 2000f:14079**
Trivedi, Vijaylaxmi *see* **Mehta, Vikram, 2000d:14054**
Vinberg, E. B. *see* **Akhiezer, D. N., 2000b:14064**

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Colliot-Thélène, Jean-Louis (*with* Kunyavskiĭ, B. È.) Groupe de Brauer non ramifié des espaces principaux homogènes de groupes linéaires. (English summary) [Unramified Brauer group of principal homogeneous spaces of linear groups] **2000c:14021**
Hassett, Brendan (*with* Tschinkel, Yu.) Geometry of equivariant compactifications of $\mathbf{G}_a^n$. **2000j:14073**
Hwang, Jun-Muk (*with* Mok, Ngaiming) Holomorphic maps from rational homogeneous spaces of Picard number 1 onto projective manifolds. **2000j:14026**
Iozzi, Alessandra (*with* Poritz, Jonathan A.) Boundary compactifications of $\mathrm{SL}(2,\mathbf{R})$ and $\mathrm{SL}(2,\mathbf{C})$. (English summary) **2000i:32039**
— (*with* Poritz, Jonathan A.) The moduli space of boundary compactifications of $\mathrm{SL}(2,\mathbf{R})$. (English summary) **2000k:58014**
Ishida, Masa-Nori (*with* Kato, Fumiharu) The strong rigidity theorem for non-Archimedean uniformization. (English summary) **2000a:14028**
Kaji, Hajime (*with* Ohno, Masahiro; Yasukura, Osami) Adjoint varieties and their secant varieties. (English summary) **2000g:14053**
Kato, Fumiharu *see* **Ishida, Masa-Nori, 2000a:14028**
Kim, Meeyoung (*with* Manivel, Laurent) On branched coverings of some homogeneous spaces. (English summary) **2000c:14020**
Kumar, Shrawan (*with* Lauritzen, Niels; Thomsen, Jesper Funch) Frobenius splitting of cotangent bundles of flag varieties. **2000g:20088**
Kunyavskiĭ, B. È. *see* **Colliot-Thélène, Jean-Louis, 2000c:14021**
Lauritzen, Niels *see* **Kumar, Shrawan et al., 2000g:20088**
Le Bruyn, Lieven (*with* Seelinger, George F.) Fibers of generic Brauer-Severi schemes. (English summary) **2000h:14039**
Manin, Yuriĭ Ivanovich Stable maps of genus zero to flag spaces. **2000a:14065**
Manivel, Laurent *see* **Kim, Meeyoung, 2000c:14020**
Mok, Ngaiming *see* **Hwang, Jun-Muk, 2000j:14026**
Ohno, Masahiro *see* **Kaji, Hajime et al., 2000g:14053**
Panyushev, D. I. On the conormal bundle of a G-stable subvariety. (English summary) **2000c:14081**
Poritz, Jonathan A. *see* **Iozzi, Alessandra, 2000i:32039** *and* **2000k:58014**
Seelinger, George F. *see* **Le Bruyn, Lieven, 2000h:14039**
Springer, Tonny A. Schubert varieties and generalizations. (English summary) **2000d:14053**
Thomsen, Jesper Funch *see* **Kumar, Shrawan et al., 2000g:20088**
Tschinkel, Yu. *see* **Hassett, Brendan, 2000j:14073**
Yasukura, Osami *see* **Kaji, Hajime et al., 2000g:14053**

14M20 Rational and unirational varieties

Items with secondary classifications in 14M20

Hassett, Brendan Some rational cubic fourfolds. **2000a:14046**
Kollár, János Rationally connected varieties over local fields. **2000h:14019**
Platonov, Vladimir Petrovich Rationality problems for group varieties. **2000f:14071**
Zaitsev, Dmitri Configurations of linear subspaces and rational invariants. **2000a:14055**

14M25 Toric varieties, Newton polyhedra [see also 52B20]

Abramovich, Dan (*with* Matsuki, Kenji; Rashid, Suliman) A note on the factorization theorem of toric birational maps after Morelli and its toroidal extension. (English summary) **2000i:14073**

Batyrev, Victor V. On the classification of toric Fano 4-folds. (English summary) **2000e:14088**

Brasselet, Jean-Paul Algebraic topology and singularities of toric varieties. **2000h:14043**

Bruns, Winfried (*with* Gubeladze, Joseph) Polytopal linear groups. **2000g:14059**

Cattani, Eduardo (*with* Dickenstein, Alicia; Sturmfels, Bernd) Residues and resultants. (English summary) **2000b:14065**

Dickenstein, Alicia *see* **Cattani, Eduardo et al., 2000b:14065**

Ford, T. J. The toroidal embedding arising from an irrational fan. (English summary) **2000a:14062**

Givental, Alexander A mirror theorem for toric complete intersections. (English summary) **2000a:14063**

Gubeladze, Joseph *see* **Bruns, Winfried, 2000g:14059**

Hamm, H. A. Very good quotients of toric varieties. **2000i:14074**

Ishii, Shihoko The minimal model theorem for divisors of toric varieties. (English summary) **2000d:14055**

Klyachko, Aleksandr Anatol'evich Toric varieties and flag spaces. (Russian) **2000h:14044**

Knutson, Allen (*with* Sharpe, Eric) Sheaves on toric varieties for physics. (English summary) **2000a:14064**

Matsuki, Kenji *see* **Abramovich, Dan et al., 2000i:14073**

Orevkov, S. Yu. Link theory and oval arrangements of real algebraic curves. **2000b:14066**

Rashid, Suliman *see* **Abramovich, Dan et al., 2000i:14073**

Rojas, J. Maurice Toric intersection theory for affine root counting. (English summary) **2000b:14067**

Scott, Richard A. Projective embeddings of toric varieties. **2000e:14089**

Sharpe, Eric *see* **Knutson, Allen, 2000a:14064**

Sturmfels, Bernd *see* **Cattani, Eduardo et al., 2000b:14065**

Yuzhakov, A. P. On formulas for the transformation of local coordinates in a toric variety. (Russian) (*see* **2000g:00029**)

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Adolphson, Alan (*with* Sperber, Steven) On the degree of the zeta function of a complete intersection. (English summary) **2000k:11075**

Altmann, Klaus (*with* Hille, Lutz) Strong exceptional sequences provided by quivers. (English summary) **2000h:16019**

Batyrev, Victor V. (*with* Tschinkel, Yu.) Manin's conjecture for toric varieties. (English summary) **2000c:11107**

— (*with* Selivanova, Elena N.) Einstein-Kähler metrics on symmetric toric Fano manifolds. (English summary) **2000j:32038**

Borisov, Alexandr On classification of toric singularities. **2000e:14003**

Braden, Tom (*with* MacPherson, Robert) Intersection homology of toric varieties and a conjecture of Kalai. (English summary) **2000h:14018**

Bukhshtaber, V. M. (*with* Ray, Nigel) Toric manifolds and complex cobordisms. (Russian) **2000b:57047**

— (*with* Panov, T. E.) Torus actions and the combinatorics of polytopes. (Russian) **2000m:52021**

Campillo, Antonio (*with* Grabowski, Janusz; Müller, Gerd) Derivation algebras of toric varieties. (English summary) **2000d:13035**

Candelas, Philip Toric geometry and dualities of string theory. (English summary) **2000c:81236**

Cox, David A. (*with* Katz, Sheldon H.) ★ Mirror symmetry and algebraic geometry. (English summary) **2000d:14048**

Dais, Dimitrios I. (*with* Henk, Martin; Ziegler, Günter M.) All abelian quotient C.I.-singularities admit projective crepant resolutions in all dimensions. (English summary) **2000b:14016**

Di Rocco, Sandra Generation of k-jets on toric varieties. (English summary) **2000m:14007**

Firla, R. T. (*with* Ziegler, Günter M.) Hilbert bases, unimodular triangulations, and binary covers of rational polyhedral cones. (English summary) **2000a:52023**

Fukui, Toshizumi Newton polygons and topology of real zero loci of real polynomials. **2000b:14081**

Gasharov, Vesselin (*with* Peeva, Irena; Welker, Volkmar) Rationality for generic toric rings. (English summary) **2000i:13015**

Gimenez, Philippe (*with* Morales, Marcel; Simis, Aron) The analytic spread of codimension two monomial varieties. (English summary) **2000c:13003**

Givental, Alexander Elliptic Gromov-Witten invariants and the generalized mirror conjecture. (English summary) **2000b:14074**

González-Sprinberg, Gerardo (*with* Pereyra, Angel) Diagrammes d'Enriques toriques généralisés et un théorème de Zariski inverse. (English and French summaries) [Generalized toric Enriques diagrams and a converse Zariski theorem] **2000b:14017**

Grabowski, Janusz *see* **Campillo, Antonio et al., 2000d:13035**

Gubeladze, Joseph K-theory of affine toric varieties. (English summary) **2000e:14009**

Hansen, Johan P. Toric surfaces and error-correcting codes. (English summary) **2000m:94036**

Henk, Martin *see* **Dais, Dimitrios I. et al., 2000b:14016**

Hille, Lutz *see* **Altmann, Klaus, 2000h:16019**

Hosono, Shinobu GKZ systems, Gröbner fans, and moduli spaces of Calabi-Yau hypersurfaces. (English summary) **2000g:14050**

Hoşten, Serkan (*with* Thomas, Rekha R.) Standard pairs and group relaxations in integer programming. (English summary) **2000f:13052**

Kajiwara, Takeshi (*with* Nakayama, Chikara) Weights of the l-adic cohomology of a proper toric variety. (English summary) **2000e:14022**

Kapranov, Mikhail M. Hypergeometric functions on reductive groups. **2000e:33018**

Karu, K. Semistable reduction in characteristic zero for families of surfaces and threefolds. (English summary) **2000j:14054**

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Kazarnovskiĭ, B. Ya. Truncations of systems of equations, ideals and varieties. (Russian. Russian summary) **2000j:13053**

Klyachko, Aleksandr Anatol'evich Stable bundles, representation theory and Hermitian operators. (English summary) **2000b:14054**

Knutson, Allen (*with* Sharpe, Eric) Equivariant sheaves. (English summary) **2000k:14011**

Krotov, A. V. On Chern classes of complete intersections in a smooth toric variety. (Russian) (*see* **2000g:00029**)

Künnemann, Klaus Algebraic cycles on toric fibrations over abelian varieties. **2000h:14007**

Lafforgue, Laurent Pavages des simplexes, schémas de graphes recollés et compactification des $\mathrm{PGL}_r^{n+1}/\mathrm{PGL}_r$. (English summary) [Pavings of simplices, schemes of graphs that are "pasted together" and compactification of $\mathrm{PGL}_r^{n+1}/\mathrm{PGL}_r$] **2000i:14071**

Lenarcik, Andrzej On the Łojasiewicz exponent of the gradient of a polynomial function. (English summary) **2000j:14102**

MacPherson, Robert *see* **Braden, Tom, 2000h:14018**

Masuda, Mikiya Unitary toric manifolds, multi-fans and equivariant index. (English summary) **2000e:57058**

Mochizuki, Shinichi Extending families of curves over log regular schemes. (English summary) **2000f:14041**

Mohri, Kenji F theory vacua in four dimensions and toric threefolds. (English summary) **2000d:81135**

Morales, Marcel *see* **Gimenez, Philippe et al., 2000c:13003**

Moroz, B. Z. On the integer points of an affine toric variety (general case). **2000e:11081**

Morrison, David R. (*with* Plesser, Moshe Ronen) Non-spherical horizons. I. (English summary) **2000d:83122**

Müller, Gerd *see* **Campillo, Antonio et al., 2000d:13035**

Mundici, Daniele (*with* Panti, Giovanni) Twenty questions with many-valued answers. (English summary) **2000c:03019**

Nakayama, Chikara *see* **Kajiwara, Takeshi, 2000e:14022**

Panov, T. E. *see* **Bukhshtaber, V. M., 2000m:52021**

Panti, Giovanni *see* **Mundici, Daniele, 2000c:03019**

Peeva, Irena *see* **Gasharov, Vesselin et al., 2000i:13015**

Pereyra, Angel *see* **González-Sprinberg, Gerardo, 2000b:14017**

Plesser, Moshe Ronen *see* **Morrison, David R., 2000d:83122**

Potemine, Igor Yu. Minimal terminal Q-factorial models of Drinfeld coarse moduli schemes. (English summary) **2000c:11091**

Ray, Nigel *see* **Bukhshtaber, V. M., 2000b:57047**

Rojas, J. Maurice Toric laminations, sparse generalized characteristic polynomials, and a refinement of Hilbert's tenth problem. (English summary) **2000h:13018**

Roos, Jan-Erik (*with* Sturmfels, Bernd) A toric ring with irrational Poincaré-Betti series. (English and French summaries) **2000e:14042**

Sankaran, G. K. Abelian surfaces in toric 4-folds. **2000c:14065**

Selivanova, Elena N. *see* **Batyrev, Victor V., 2000j:32038**

Sharpe, Eric *see* **Knutson, Allen, 2000k:14011**

Simis, Aron *see* **Gimenez, Philippe et al., 2000c:13003**

Skarke, H. String dualities and toric geometry: an introduction. (English summary) **2000m:81177**

Sombra, Martín A sparse effective Nullstellensatz. (English summary) **2000c:13041**

Sperber, Steven *see* **Adolphson, Alan, 2000k:11075**

Spielberg, Holger ★ A formula for the Gromov-Witten invariants of toric varieties. (English summary) **2000e:14096**

— The Gromov-Witten invariants of symplectic toric manifolds, and their quantum cohomology ring. (English and French summaries) **2000j:14087**

Stienstra, Jan Resonant hypergeometric systems and mirror symmetry. (English summary) **2000b:14013**

Sturmfels, Bernd *see* **Roos, Jan-Erik, 2000e:14042**

Thomas, Rekha R. *see* **Hoşten, Serkan, 2000f:13052**

Tibăr, Mihai Monodromy of functions on isolated cyclic quotients. (English summary) **2000i:32046**

Tschinkel, Yu. *see* **Batyrev, Victor V., 2000c:11107**

von Unge, Rikard Branes at generalized conifolds and toric geometry. (English summary) **2000e:81149**

Welker, Volkmar *see* **Gasharov, Vesselin et al., 2000i:13015**

Ziegler, Günter M. *see* **Firla, R. T., 2000a:52023** *and* **Dais, Dimitrios I. et al., 2000b:14016**

14M30 Supervarieties [see also 32C11, 58A50]

Onishchik, A. L. (*with* Platonova, O. V.) Homogeneous supermanifolds associated with a complex projective space. I. (Russian. Russian summary) **2000e:14090**

— (*with* Platonova, O. V.) Homogeneous supermanifolds associated with the complex projective space. II. (Russian. Russian summary) **2000k:14040**

Platonova, O. V. *see* **Onishchik, A. L., 2000e:14090** *and* **2000k:14040**

Items with secondary classifications in 14M30

Bergvelt, M. J. (*with* Rabin, J. M.) Supercurves, their Jacobians, and super KP equations. **2000k:14025**

Rabin, J. M. *see* **Bergvelt, M. J., 2000k:14025**

14M99 None of the above, but in this section

Items with secondary classifications in 14M99

Causa, Antonio (*with* Re, Riccardo; Teodorescu, Titus) Some remarks on linear spaces of nilpotent matrices. **2000g:14026**

Chardin, Marc (*with* Philippon, Patrice) Régularité et interpolation. (English summary) [Regularity and interpolation] **2000f:14005**

Ilic, Bo (*with* Landsberg, Joseph M.) On symmetric degeneracy loci, spaces of symmetric matrices of constant rank and dual varieties. **2000e:14091**

Landsberg, Joseph M. *see* **Ilic, Bo, 2000e:14091**

Mehta, Vikram (*with* Trivedi, Vijaylaxmi) The variety of circular complexes and F-splitting. **2000h:14040**

Philippon, Patrice *see* **Chardin, Marc, 2000f:14005**

Re, Riccardo *see* **Causa, Antonio et al., 2000g:14026**

Teodorescu, Titus *see* **Causa, Antonio et al., 2000g:14026**
Trivedi, Vijaylaxmi *see* **Mehta, Vikram, 2000h:14040**

14Nxx Projective and enumerative geometry [see also 51–XX]

14N05 Projective techniques [see also 51N35]

Ballico, Edoardo (*with* Cossidente, Antonio) Surfaces in $\mathbf{P}^5$ which do not admit trisecants. (English summary) **2000f:14081**
Barile, Margherita (*with* Morales, Marcel) On the equations defining minimal varieties. **2000m:14051**
Chiantini, Luca (*with* Ciliberto, Ciro) On the Severi varieties on surfaces in $\mathbf{P}^3$. (English summary) **2000f:14082**
Ciliberto, Ciro *see* **Chiantini, Luca, 2000f:14082**
Cossidente, Antonio *see* **Ballico, Edoardo, 2000f:14081**
Ilic, Bo (*with* Landsberg, Joseph M.) On symmetric degeneracy loci, spaces of symmetric matrices of constant rank and dual varieties. **2000e:14091**
Ji, Yong Qiang A theorem on a simplified equation for a quadric surface with 0 as a double root. (Chinese. English and Chinese summaries) **2000f:14083**
Landsberg, Joseph M. *see* **Ilic, Bo, 2000e:14091**
Medvedeva, L. B. (*with* Pushkova, Yu. A.) On the center manifold of the projection of $\mathbf{P}^n$ onto $\mathbf{P}^{n-3}$. (Russian) **2000i:14075**
Morales, Marcel *see* **Barile, Margherita, 2000m:14051**
Nollet, Scott Bounds on multisecant lines. (English summary) **2000c:14072**
Ohno, Masahiro On degenerate secant varieties whose Gauss maps have the largest images. (English summary) **2000f:14084**
Previato, Emma Poncelet's theorem in space. **2000d:14056**
Pushkova, Yu. A. *see* **Medvedeva, L. B., 2000i:14075**

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d'Almeida, Jean Surfaces à points doubles isolés. (English summary) [Surfaces with double isolated points] **2000a:14044**
Arrondo, Enrique (*with* Sendra, Juana; Sendra, J. Rafael) Genus formula for generalized offset curves. (English summary) **2000a:14034**
Ballico, Edoardo (*with* Cossidente, Antonio) On a class of partial t-spreads of $\mathrm{PG}(n,q)$ arising from scrolls. (English summary) **2000k:51005**
Ciliberto, Ciro (*with* Miranda, Rick) Degenerations of planar linear systems. (English summary) **2000m:14005**
— (*with* Miranda, Rick) Linear systems of plane curves with base points of equal multiplicity. (English summary) **2000m:14006**
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Kaji, Hajime Secant varieties of adjoint varieties. **2000a:14061**
— (*with* Ohno, Masahiro; Yasukura, Osami) Adjoint varieties and their secant varieties. (English summary) **2000g:14053**
Kwak, Si-Jong Castelnuovo regularity for smooth subvarieties of dimensions 3 and 4. **2000d:14043**
— Castelnuovo-Mumford regularity bound for smooth threefolds in $\mathbf{P}^5$ and extremal examples. (English summary) **2000e:14064**
Lanteri, Antonio (*with* Mallavibarrena, Raquel) Higher order dual varieties of projective surfaces. (English summary) **2000i:14063**
Mallavibarrena, Raquel *see* **Lanteri, Antonio, 2000i:14063**
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Ohno, Masahiro *see* **Kaji, Hajime et al., 2000g:14053**
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Yoshida, Masaaki The real loci of the configuration space of six points on the projective line and a Picard modular 3-fold. **2000h:14045**

14N10 Enumerative problems (combinatorial problems)

Baragar, Arthur Rational curves with zero self-intersection on certain $K3$ surfaces. (English summary) **2000b:14068**
Beauville, Arnaud Counting rational curves on $K3$ surfaces. **2000c:14073**
Bryan, Jim (*with* Leung, Naichung Conan) Generating functions for the number of curves on abelian surfaces. **2000m:14052**
Chen, Xi² Rational curves on $K3$ surfaces. **2000d:14057**
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Debarre, Olivier On the Euler characteristic of generalized Kummer varieties. (English summary) **2000m:14053**
Givental, Alexander The mirror formula for quintic threefolds. **2000j:14083**
Göttsche, Lothar A conjectural generating function for numbers of curves on surfaces. (English summary) **2000f:14085**
Kley, Holger P. *see* **Clemens, Herbert, 2000g:14060**
Kock, Joachim (*with* Vainsencher, Israel) ★ A fórmula de Kontsevich para curvas racionais planas. (Portuguese) [The Kontsevich formula for rational plane curves] **2000m:14054**
Leung, Naichung Conan *see* **Bryan, Jim, 2000m:14052**
Manin, Yuriĭ Ivanovich Stable maps of genus zero to flag spaces. **2000a:14065**
Mariño, Marcos (*with* Moore, Gregory W.) Counting higher genus curves in a Calabi-Yau manifold. (English summary) **2000f:14086**
Moore, Gregory W. *see* **Mariño, Marcos, 2000f:14086**
Ran, Ziv Bend, break and count. (English summary) **2000i:14076**
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Vainsencher, Israel Conics five-fold tangent to a plane curve. (English and Portuguese summaries) **2000b:14069**
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Cox, David A. (*with* Katz, Sheldon H.) ★ Mirror symmetry and algebraic geometry. (English summary) **2000d:14048**
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Hosono, Shinobu GKZ systems, Gröbner fans, and moduli spaces of Calabi-Yau hypersurfaces. (English summary) **2000g:14050**
Ionel, Eleny-Nicoleta Genus 1 enumerative invariants in $\mathbf{P}^n$ with fixed j invariant. **2000h:53113**
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Ran, Ziv On the quantum cohomology of the plane, old and new, and a $K3$ analogue. (English summary) **2000h:14047**
Sommervoll, Dag Einar Rational curves on a complete intersection Calabi-Yau variety in $\mathbf{P}^3 \times \mathbf{P}^3$. (English summary) **2000m:14045**
Voisin, Claire ★ Mirror symmetry. (English summary) **2000h:14033**

14N15 Classical problems, Schubert calculus

Buch, Anders Skovsted (*with* Fulton, William) Chern class formulas for quiver varieties. **2000f:14087**
Fulton, William Eigenvalues of sums of Hermitian matrices (after A. Klyachko). (English summary) **2000e:14092**
— *see also* **Buch, Anders Skovsted, 2000f:14087**
Kaneta, Hitoshi A 72-arc associated with the A_6-invariant sextic. **2000f:14088**
Shapiro, Boris Z. (*with* Shapiro, Mikhail; Vaĭnshteĭn, A. D.) Skew-symmetric vanishing lattices and intersections of Schubert cells. **2000e:14093**
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Sottile, Frank Pieri's formula via explicit rational equivalence. (English summary) **2000b:14070**
— The special Schubert calculus is real. (English summary) **2000c:14074**
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Bergeron, Nantel (*with* Sottile, Frank) Schubert polynomials, the Bruhat order, and the geometry of flag manifolds. **2000d:05127**
Bertram, Aaron (*with* Ciocan-Fontanine, Ionuţ; Fulton, William) Quantum multiplication of Schur polynomials. **2000k:14042**
(Buff, Xavier) *see* **Moduli spaces of curves, mapping class groups and field theory, 2000i:14001**
Ciocan-Fontanine, Ionuţ On quantum cohomology rings of partial flag varieties. **2000d:14058**
— *see also* **Bertram, Aaron et al., 2000k:14042**
Endraß, Stephan Minimal even sets of nodes. (English summary) **2000c:14049**
(Fehrenbach, Jérôme) *see* **Moduli spaces of curves, mapping class groups and field theory, 2000i:14001**
Fulton, William *see* **Bertram, Aaron et al., 2000k:14042**
Göttsche, Lothar A conjectural generating function for numbers of curves on surfaces. (English summary) **2000f:14085**
Huber, Birkett (*with* Sottile, Frank; Sturmfels, Bernd) Numerical Schubert calculus. (English summary) **2000i:14079**
Klyachko, Aleksandr Anatol'evich Toric varieties and flag spaces. (Russian) **2000h:14044**
— Stable bundles, representation theory and Hermitian operators. (English summary) **2000b:14054**
Lascoux, Alain (*with* Pragacz, Piotr) Operator calculus for $\widetilde{Q}$-polynomials and Schubert polynomials. **2000e:05164**
(Lochak, Pierre) *see* **Moduli spaces of curves, mapping class groups and field theory, 2000i:14001**
Magyar, Peter Borel-Weil theorem for configuration varieties and Schur modules. (English summary) **2000e:14087**
Pragacz, Piotr *see* **Lascoux, Alain, 2000e:05164**
(Schneps, Leila) *see* **Moduli spaces of curves, mapping class groups and field theory, 2000i:14001**
Sottile, Frank *see* **Bergeron, Nantel, 2000d:05127** *and* **Huber, Birkett et al., 2000i:14079**
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Tamvakis, Harry Arakelov theory of the Lagrangian Grassmannian. (English summary) **2000j:14041**
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Vakil, Ravi The characteristic numbers of quartic plane curves. (English summary) **2000i:14078**
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14N20 Configurations of linear subspaces

Flamini, Flaminio Towards an inductive construction of self-associated sets of points. **2000m:14055**
Gaiffi, Giovanni Generalized Poincaré series for models of the braid arrangements. (English summary) **2000j:14084**
Huber, Birkett (*with* Sottile, Frank; Sturmfels, Bernd) Numerical Schubert calculus. (English summary) **2000i:14079**
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Yan, Zhao An étale analog of the Goresky-MacPherson formula for subspace arrangements. (English summary) **2000k:14041**
Zak, F. L. Projective invariants of quadratic embeddings. **2000b:14071**

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Geramita, Anthony V. (*with* Harima, Tadahito; Shin, Yong Su) Extremal point sets and Gorenstein ideals. **2000h:13011**
Harima, Tadahito *see* **Geramita, Anthony V. et al., 2000h:13011**
Orecchia, Ferruccio Ordinary subvarieties of codimension one. (English summary) **2000h:13003**
Shin, Yong Su *see* **Geramita, Anthony V. et al., 2000h:13011**
Thaddeus, Michael Complete collineations revisited. **2000j:14081**

14N25 Varieties of low degree

Ciliberto, Ciro (*with* Hulek, Klaus) A series of smooth irregular varieties in projective space. (English summary) **2000i:14080**
Hulek, Klaus *see* **Ciliberto, Ciro, 2000i:14080**

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Medvedeva, L. B. (*with* Pushkova, Yu. A.) On the center manifold of the projection of $\mathbf{P}^n$ onto $\mathbf{P}^{n-3}$. (Russian) **2000i:14075**
Pushkova, Yu. A. *see* **Medvedeva, L. B., 2000i:14075**

14N30 Adjunction problems

Beltrametti, Mauro C. (*with* Sommese, Andrew J.) On the degree and the birationality of the second adjunction mapping. (English summary) **2000j:14086**
Fujino, Osamu Applications of Kawamata's positivity theorem. (English summary) **2000f:14089**
Sommese, Andrew J. *see* **Beltrametti, Mauro C., 2000j:14086**

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Ballico, Edoardo (*with* Cossidente, Antonio) Surfaces in $\mathbf{P}^5$ which do not admit trisecants. (English summary) **2000f:14081**
Chandler, Karen A. (*with* Howard, Alan; Sommese, Andrew J.) Reducible hyperplane sections. I. (English summary) **2000g:14052**
Cossidente, Antonio *see* **Ballico, Edoardo, 2000f:14081**
Franco, Davide (*with* Lascu, A. T.) Curves contractable in general surfaces. (English summary) **2000g:14039**
Howard, Alan *see* **Chandler, Karen A. et al., 2000g:14052**
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Ohno, Masahiro On degenerate secant varieties whose Gauss maps have the largest images. (English summary) **2000f:14084**
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14N35 Gromov-Witten invariants, quantum cohomology [see also 53D45]

Agnihotri, S. (*with* Woodward, Christopher) Eigenvalues of products of unitary matrices and quantum Schubert calculus. (English summary) **2000a:14066**
Behrend, K. The product formula for Gromov-Witten invariants. (English summary) **2000m:14056**
Bertram, Aaron (*with* Ciocan-Fontanine, Ionuţ; Fulton, William) Quantum multiplication of Schur polynomials. **2000k:14042**
Ciocan-Fontanine, Ionuţ On quantum cohomology rings of partial flag varieties. **2000d:14058**
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Collino, Alberto (*with* Jinzenji, Masao) On the structure of the small quantum cohomology rings of projective hypersurfaces. (English summary) **2000k:14043**
Eguchi, Tohru (*with* Jinzenji, Masao; Xiong, Chuan-Sheng) Quantum cohomology and free-field representation. (English summary) **2000c:14075**
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Givental, Alexander Elliptic Gromov-Witten invariants and the generalized mirror conjecture. (English summary) **2000b:14074**
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Jinzenji, Masao *see* **Eguchi, Tohru et al., 2000c:14075** *and* **Collino, Alberto, 2000k:14043**
Kabanov, Alexandre (*with* Kimura, Takashi[2]) Intersection numbers and rank one cohomological field theories in genus one. (English summary) **2000h:14046**
Kimura, Takashi[2] *see* **Kabanov, Alexandre, 2000h:14046**
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Liu, Xiaobo (*with* Tian, Gang) Virasoro constraints for quantum cohomology. **2000f:14090**
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— A geometric construction of Getzler's elliptic relation. **2000d:14059**
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Ran, Ziv On the quantum cohomology of the plane, old and new, and a $K3$ analogue. (English summary) **2000h:14047**
Ravi, M. S. (*with* Rosenthal, Joachim; Wang, Xiaochang Alex) Degree of the generalized Plücker embedding of a Quot scheme and quantum cohomology. **2000e:14095**
Rosenthal, Joachim *see* **Ravi, M. S. et al., 2000e:14095**
Siebert, Bernd An update on (small) quantum cohomology. **2000d:14060**
Spielberg, Holger ★ A formula for the Gromov-Witten invariants of toric varieties. (English summary) **2000e:14096**
— The Gromov-Witten invariants of symplectic toric manifolds, and their quantum cohomology ring. (English and French summaries) **2000j:14087**
Tian, Gang *see* **Liu, Xiaobo, 2000f:14090**
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Wilson, P. M. H. Flops, Type III contractions and Gromov-Witten invariants on Calabi-Yau threefolds. **2000m:14058**
Woodward, Christopher *see* **Agnihotri, S., 2000a:14066**
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(Cooke, Roger Marvin) *see* **Voisin, Claire, 2000h:14033**
Cox, David A. (*with* Katz, Sheldon H.) ★ Mirror symmetry and algebraic geometry. (English summary) **2000d:14048**
Faber, Carel A conjectural description of the tautological ring of the moduli space of curves. (English summary) **2000j:14044**
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Ionel, Eleny-Nicoleta Genus 1 enumerative invariants in $\mathbf{P}^n$ with fixed j invariant. **2000h:53113**
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Kawai, Toshiya String duality and enumeration of curves by Jacobi forms. (English summary) **2000b:11051**
Kley, Holger P. *see* **Clemens, Herbert, 2000g:14060**
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Losev, Andrei Hodge strings and elements of K. Saito's theory of primitive form. (English summary) **2000c:14013**
Mariño, Marcos (*with* Moore, Gregory W.) Counting higher genus curves in a Calabi-Yau manifold. (English summary) **2000f:14086**
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Paoletti, Roberto On symplectic invariants of algebraic varieties coming from crepant contractions. **2000f:14021**
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Sottile, Frank Real rational curves in Grassmannians. **2000j:14080**
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14N99 None of the above, but in this section

Crass, Scott Solving the sextic by iteration: a study in complex geometry and dynamics. (English summary) **2000j:14088**

Items with secondary classifications in 14N99

Landsberg, Joseph M. Is a linear space contained in a submanifold? On the number of derivatives needed to tell. (English summary) **2000k:14035**

14Pxx Real algebraic and real analytic geometry

Bochnak, Jacek (*with* Coste, Michel; Roy, Marie-Françoise) ★ Real algebraic geometry. **2000a:14067**
Coste, Michel *see* **Bochnak, Jacek et al., 2000a:14067**
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14P05 Real algebraic sets [see also 12Dxx]

Birbrair, Lev (*with* Sobolevskaya, M. P.) Realization of Hölder complexes. (English and French summaries) **2000i:14082**
Bochnak, Jacek (*with* Kucharz, Wojciech) Smooth maps and real algebraic morphisms. (English summary) **2000m:14059**
Coste, Michel Topological types of fewnomials. **2000b:14075**
Huisman, J. Correction to: "A real algebraic vector bundle is strongly algebraic whenever its total space is affine" [in *Real algebraic geometry and topology (East Lansing, MI, 1993)*, 117–119, Contemp. Math., 182, Amer. Math. Soc., Providence, RI, 1995; MR 95m:14036]. (*see* **2000m:14001**)
King, Henry Churchill Planar linkages and algebraic sets. **2000j:14089**
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McCrory, Clint (*with* Parusiński, Adam) Topology of real algebraic sets of dimension 4: necessary conditions. (English summary) **2000m:14060**
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Podkorytov, S. S. On the Euler characteristic of a random algebraic hypersurface. (Russian. English and Russian summaries) **2000m:14061**
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Acquistapace, F. (*with* Broglia, F.; Vélez, M. Pilar) Basicness of semialgebraic sets. (English summary) **2000m:14062**
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Bhatwadekar, S. M. (*with* Sridharan, Raja) Zero cycles and the Euler class groups of smooth real affine varieties. **2000f:14010**
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Jordan, Denis (*with* Steiner, Marcel) Configuration spaces of mechanical linkages. (English summary) **2000f:52030**
Kapovich, Michael (*with* Millson, John J.) On the moduli space of a spherical polygonal linkage. (English summary) **2000g:14020**
Krasnov, V. A. Real algebraic varieties without real points. (Russian. Russian summary) **2000j:14015**
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Mishra, Bhubaneswar Computational real algebraic geometry. (*see* **2000j:52001**)
Mladenov, Ivaïlo M. Uniformization of the Cassinian oval.
Novikov, Dmitri (*with* Yakovenko, S.) Tangential Hilbert problem for perturbations of hyperelliptic Hamiltonian systems. (English summary) **2000a:34065**
Pecker, Daniel Sur la réalité des points doubles des courbes gauches. (English and French summaries) [On the realness of double points of space curves] **2000m:14034**
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Sendra, J. Rafael (*with* Winkler, Franz) Algorithms for rational real algebraic curves. (English summary) **2000j:14097**
Sottile, Frank The special Schubert calculus is real. (English summary) **2000c:14074**
— Real rational curves in Grassmannians. **2000j:14080**
Sridharan, Raja *see* **Bhatwadekar, S. M., 2000f:14010**
Steiner, Marcel *see* **Jordan, Denis, 2000f:52030**
Vélez, M. Pilar On fans in real surfaces. (English summary) **2000b:14079**
— *see also* **Acquistapace, F. et al., 2000m:14062**
Winkler, Franz *see* **Sendra, J. Rafael, 2000j:14097**
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14P10 Semialgebraic sets and related spaces

Acquistapace, F. (*with* Broglia, F.; Vélez, M. Pilar) Basicness of semialgebraic sets. (English summary) **2000m:14062**
Basu, Saugata On bounding the Betti numbers and computing the Euler characteristic of semi-algebraic sets. (English summary) **2000d:14061**
— (*with* Pollack, Richard M.; Roy, Marie-Françoise) Computing roadmaps of semi-algebraic sets on a variety. (English summary) **2000h:14048**
Birbrair, Lev Local bi-Lipschitz classification of 2-dimensional semialgebraic sets. (English summary) **2000j:14091**
Bröcker, Ludwig On symmetric semialgebraic sets and orbit spaces. (English summary) **2000b:14076**
Broglia, F. *see* **Acquistapace, F. et al., 2000m:14062**
Cimprič, Jaka Positivstellensatz. (Slovenian. English and Slovenian summaries)
Dutertre, Nicolas An algebraic formula for the Euler characteristic of some semi-algebraic sets. (English summary) **2000d:14062**
Ferrier, Christophe Computation of the distance to semi-algebraic sets. (English and French summaries) **2000m:14063**
Kurdyka, Krzysztof Injective endomorphisms of real algebraic sets are surjective. **2000b:14077**
Madden, James J. *see* **Schwartz, Niels, 2000m:14064**
Piękosz, Artur On semialgebraic points of definable sets. (English summary) **2000k:14044**
Pollack, Richard M. *see* **Basu, Saugata et al., 2000h:14048**
Putinar, Mihai (*with* Vasilescu, Florian-Horia) Positive polynomials on semi-algebraic sets. (English and French summaries) **2000b:14078**
Richardson, Daniel Weak Wu stratification in $\mathbf{R}^n$. (English summary) **2000j:14092**
Roy, Marie-Françoise *see* **Basu, Saugata et al., 2000h:14048**
Schwartz, Niels (*with* Madden, James J.) ★ Semi-algebraic function rings and reflectors of partially ordered rings. **2000m:14064**
Speissegger, Patrick The Pfaffian closure of an o-minimal structure. (English summary) **2000j:14093**
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Gonzalez-Campos, Neila *see* **Gonzalez-Vega, Laureano, 2000k:68178**
Gonzalez-Vega, Laureano (*with* Gonzalez-Campos, Neila) Simultaneous elimination by using several tools from real algebraic geometry. (English summary) **2000k:68178**
Lickteig, Thomas (*with* Meer, Klaus) Semi-algebraic complexity–additive complexity of diagonalization of quadratic forms. (English summary) **2000c:68155**
Marshall, Murray A. A real holomorphy ring without the Schmüdgen property. (English summary) **2000e:12002**
McCrory, Clint (*with* Parusiński, Adam) Topology of real algebraic sets of dimension 4: necessary conditions. (English summary) **2000m:14060**
Meer, Klaus *see* **Lickteig, Thomas, 2000c:68155**
Parusiński, Adam *see* **McCrory, Clint, 2000m:14060**
Sobolevskaya, M. P. *see* **Birbrair, Lev, 2000i:14082**

14P15 Real analytic and semianalytic sets [see also 32B20, 32C05]

Abánades, Miguel A. (*with* Joglar-Prieto, Nuria; Ruiz, Jesús M.) Bounded meromorphic functions on compact real analytic sets. (English summary) **2000j:14094**
Joglar-Prieto, Nuria *see* **Abánades, Miguel A. et al., 2000j:14094**
Podkorytov, S. S. The mean value of the Euler characteristic of an algebraic hypersurface. (Russian. Russian summary) **2000j:14095**
Richardson, Daniel Elimination of infinitesimal quantifiers. (English summary) **2000m:14065**
Ruiz, Jesús M. *see* **Abánades, Miguel A. et al., 2000j:14094**
Zell, Thierry Betti numbers of semi-Pfaffian sets. (English summary) **2000g:14062**

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Bierstone, Edward (*with* Milman, Pierre D.) Geometric and differential properties of subanalytic sets. **2000c:32027**
Bos, L. P. (*with* Levenberg, Norman; Milman, Pierre D.; Taylor, B. A.) Tangential Markov inequalities on real algebraic varieties. (English summary) **2000h:32008**
Huisman, J. Real quotient singularities and nonsingular real algebraic curves in the boundary of the moduli space. (English summary) **2000i:14033**
Kurdyka, Krzysztof On gradients of functions definable in o-minimal structures. (English and French summaries) **2000b:03139**
Levenberg, Norman *see* **Bos, L. P. et al., 2000h:32008**
Lion, Jean-Marie Densité des ensembles semi-pfaffiens. (English and French summaries) [Density of semi-Pfaffian groups] **2000a:32013**
Milman, Pierre D. *see* **Bierstone, Edward, 2000c:32027** *and* **Bos, L. P. et al., 2000h:32008**
Taylor, B. A. *see* **Bos, L. P. et al., 2000h:32008**
Wilkie, Alex J. O-minimality. **2000b:03115**

14P20 Nash functions and manifolds [see also 32C07, 58A07]

Coste, Michel (*with* Shiota, Masahiro) Nash functions on noncompact Nash manifolds. **2000c:14076**
Kawakami, Tomohiro Simultaneous Nash structures of a compactifiable $C^\infty G$ manifold and its $C^\infty G$ submanifolds. (English summary) **2000c:14077**
— Imbeddings of manifolds defined on an o-minimal structure on $(\mathbf{R}, +, \cdot, <)$. (English summary) **2000d:14063**
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Ruiz, Jesús M. *see* **Abánades, Miguel A. et al., 2000j:14094**
Tancredi, Alessandro Some remarks on the semi-local extension of Nash maps. (English and Italian summaries) **2000d:32012**
— (*with* Tognoli, Alberto) On the relative Nash approximation of analytic maps. (English summary) **2000g:32008**
Tognoli, Alberto *see* **Tancredi, Alessandro, 2000g:32008**

14P25 Topology of real algebraic varieties

Bihan, Frédéric Une quintique numérique réelle dont le premier nombre de Betti est maximal. (English and French summaries) [A real numerical quintic surface whose first Betti number is maximal] **2000f:14092**

Bochnak, Jacek (*with* Kucharz, Wojciech) On homology classes represented by real algebraic varieties. **2000b:14080**
Fukui, Toshizumi Newton polygons and topology of real zero loci of real polynomials. **2000b:14081**
Kharlamov, V. M. (*with* Orevkov, S. Yu.; Shustin, Evgenīĭ) Singularity which has no M-smoothing. (English summary) **2000m:14066**
Kollár, János Real algebraic threefolds. I. Terminal singularities. (English summary) **2000c:14078**
— Real algebraic threefolds. II. Minimal model program. **2000c:14079**
— Real algebraic threefolds. III. Conic bundles. **2000h:14049**
Krasnov, V. A. On the fundamental homology classes of a real algebraic variety. (Russian. Russian summary) **2000j:14096**
Kucharz, Wojciech Algebraic morphisms into rational real algebraic surfaces. **2000d:14064**
— *see also* **Bochnak, Jacek, 2000b:14080**
Orevkov, S. Yu. A new affine M-sextic. II. (Russian) **2000f:14093**
— (*with* Polotovskiĭ, G. M.) Projective M-cubics and M-quartics in general position with a maximally intersecting pair of ovals. (Russian. Russian summary) **2000m:14067**
— Prospective conics and M-quintics in general position with a maximally intersecting pair of ovals. (Russian. Russian summary) **2000h:14050**
— *see also* **Kharlamov, V. M. et al., 2000m:14066**
Ozan, Yildiray Homology of real algebraic fiber bundles having circle as fiber or base. **2000b:14082**
Paris, Stephen P. Rokhlin's inequalities for real algebraic curves and an extremal property. (English summary) **2000f:14094**
Polotovskiĭ, G. M. *see* **Orevkov, S. Yu., 2000m:14067**
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Tibăr, Mihai (*with* Zaharia, Alexandru) Asymptotic behaviour of families of real curves. (English summary) **2000g:14063**
Viro, O. Ya. Mutual position of hypersurfaces in projective space. (English summary) **2000k:14045**
Winkel, Rudolf A transfer principle in the real plane from nonsingular algebraic curves to polynomial vector fields. (English summary) **2000m:14068**
Zaharia, Alexandru *see* **Tibăr, Mihai, 2000g:14063**
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Bix, Robert ★ Conics and cubics. (English summary) **2000c:14001**
Bochnak, Jacek (*with* Kucharz, Wojciech) Smooth maps and real algebraic morphisms. (English summary) **2000m:14059**
Dutertre, Nicolas An algebraic formula for the Euler characteristic of some semi-algebraic sets. (English summary) **2000d:14062**
Kamiyama, Yasuhiko (*with* Tezuka, Michishige) Topology and geometry of equilateral polygon linkages in the Euclidean plane. **2000k:55024**
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Mikhalkin, G. B. Birational equivalence for smooth manifolds with boundary. (Russian. Russian summary) **2000j:57058**
Shmelev, A. S. Stratifications by the orbits of a symplectic group on flag manifolds. (Russian) **2000g:32036**
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14P99 None of the above, but in this section

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Ballico, Edoardo On the connectedness of the real part of moduli spaces of vector bundles on real algebraic surfaces. (English summary) **2000j:14067**
Gamboa, J. M. A note on cohomology over non-algebraically closed fields. (English summary) **2000j:14035**
van Hamel, Joost Divisors on real algebraic varieties without real points. (English summary) **2000f:14009**
Krasnov, V. A. Étale and equivariant cohomologies of a real algebraic variety. (Russian. Russian summary) **2000d:14021**
Lusztig, George Total positivity and canonical bases. (English summary) **2000j:20089**
Monnier, Jean-Philippe Application signature et anneaux archimédiens. [Signature mapping and Archimedean rings] **2000e:19005**
Nowak, Krzysztof Jan A model-theoretic criterion for quantifier elimination and its application to geometry. (English summary) **2000b:03114**
Orevkov, S. Yu. Asymptotic number of triangulations with vertices in $\mathbf{Z}^2$. (English summary) **2000a:05012**

14Qxx Computational aspects in algebraic geometry [see also 12Y05, 13Pxx, 68W30]

14Q05 Curves

Bermejo Díaz, Isabel (*with* Lejeune-Jalabert, Monique) Sur la complexité du calcul des projections d'une courbe projective. (English summary) [On the complexity of computing the projections of a projective curve] **2000d:14065**
Fujimoto, M. (*with* Suzuki, Masakazu) Calculation system for the dual graph of resolution of the algebraic curve singularities using Risa/Asir. (English summary) **2000h:14052**
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Sendra, J. Rafael (*with* Winkler, Franz) Algorithms for rational real algebraic curves. (English summary) **2000j:14097**
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Walsh, P. Gary A polynomial-time complexity bound for the computation of the singular part of a Puiseux expansion of an algebraic function. (English summary) **2000j:14098**
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Bermejo Díaz, Isabel (*with* Gimenez, Philippe) On Castelnuovo-Mumford regularity of projective curves. (English summary) **2000j:13022**
Bresinsky, Henrik (*with* Lê Tuân Hoa) Minimal generating sets for a family of monomial curves in $\mathbf{A}^4$. (English summary) **2000f:14046**
Coombes, Kevin R. Elliptic curves and logarithmic derivatives. (English summary) **2000b:14012**
Gimenez, Philippe *see* **Bermejo Díaz, Isabel, 2000j:13022**
Lê Tuân Hoa *see* **Bresinsky, Henrik, 2000f:14046**

14Q10 Surfaces, hypersurfaces

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Costa, Laura An explicit description of some surfaces of degree 8 in $\mathbf{P}^5$. **2000e:14058**

14Q15 Higher-dimensional varieties

Hägele, K. (*with* Morais, J. E.; Pardo, L. M.; Sombra, Martín) On the intrinsic complexity of the arithmetic Nullstellensatz. (English summary) **2000m:14069**
Morais, J. E. *see* **Hägele, K. et al., 2000m:14069**
Pardo, L. M. *see* **Hägele, K. et al., 2000m:14069**
Rychlik, Marek Complexity and applications of parametric algorithms of computational algebraic geometry. (English summary) **2000i:14083**
Sombra, Martín *see* **Hägele, K. et al., 2000m:14069**

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Gonzalez-Vega, Laureano (*with* Gonzalez-Campos, Neila) Simultaneous elimination by using several tools from real algebraic geometry. (English summary) **2000k:68178**
Ha, H. Tai (*with* Van Tuyl, Adam) The graph and the image of a rational map from $\mathbf{P}^n$ to $\mathbf{P}^m$. (English summary) **2000e:14015**
Van Tuyl, Adam *see* **Ha, H. Tai, 2000e:14015**

14Q20 Effectivity

Bach, Eric Sheaf cohomology is #P-hard. (English summary) **2000b:14083**

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Cohen, Arjeh M. Gröbner bases, an introduction. **2000c:13037**
Heintz, J. (*with* Matera, Guillermo; Pardo, L. M.; Wachenchauzer, R.) The intrinsic complexity of parametric elimination methods. (English summary) **2000b:65249**
Matera, Guillermo Probabilistic algorithms for geometric elimination. (English summary) **2000i:68209**
— *see also* **Heintz, J. et al., 2000b:65249**
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Wachenchauzer, R. *see* **Heintz, J. et al., 2000b:65249**

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Recio, Tomas (*with* Sterk, Hans; Vélez, M. Pilar) Automatic geometry theorem proving. **2000b:14084**
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Basu, Saugata On bounding the Betti numbers and computing the Euler characteristic of semi-algebraic sets. (English summary) **2000d:14061**
Berenstein, Carlos A. (*with* Yger, Alain) Residue calculus and effective Nullstellensatz. (English summary) **2000g:13016**
Broglia, F. *see* **Acquistapace, F. et al., 2000m:14062**
Greuel, Gert-Martin (*with* Pfister, Gerhard) Gröbner bases and algebraic geometry. **2000k:13022**
Holliday, Tim (*with* Pistone, Giovanni; Riccomagno, Eva; Wynn, Henry P.) The application of computational algebraic geometry to the analysis of designed experiments: a case study. (English summary) **2000g:62188**
Liriano, Sal Irreducible components in an algebraic variety of representations of a class of one relator groups. (English summary) **2000f:20060**
Martin, Bernd Computing versal deformations with SINGULAR. (English summary) **2000c:14015**
Pfister, Gerhard *see* **Greuel, Gert-Martin, 2000k:13022**
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Riccomagno, Eva *see* **Holliday, Tim et al., 2000g:62188**
Richardson, Daniel Weak Wu stratification in $\mathbf{R}^n$. (English summary) **2000j:14092**
Vélez, M. Pilar *see* **Acquistapace, F. et al., 2000m:14062**
Wynn, Henry P. *see* **Holliday, Tim et al., 2000g:62188**
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14Rxx Affine geometry

14R05 Classification of affine varieties

Gurjar, R. V. (*with* Pradeep, C. R.) Q-homology planes are rational. III. **2000m:14070**
Jelonek, Zbigniew Smooth affine curves without embeddings into the affine plane. (English summary) **2000i:14084**
Masuda, Kayo (*with* Miyanishi, Masayoshi) Invariant subvarieties of low codimension in the affine spaces. (English summary) **2000m:14071**
Miyanishi, Masayoshi *see* **Masuda, Kayo, 2000m:14071**
Pradeep, C. R. *see* **Gurjar, R. V., 2000m:14070**
Rosenthal, Joachim (*with* Wang, Xiaochang Alex) Eigenvalue completions by affine varieties. (English summary) **2000i:14085**
Suzuki, Masakazu Affine plane curves with one place at infinity. (English and French summaries) **2000f:14096**
Wang, Xiaochang Alex *see* **Rosenthal, Joachim, 2000i:14085**

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Bresinsky, Henrik (*with* Lê Tuân Hoa) Minimal generating sets for a family of monomial curves in $\mathbf{A}^4$. (English summary) **2000f:14046**
Kojima, Hideo Open rational surfaces with logarithmic Kodaira dimension zero. **2000g:14047**
Lesfari, A. On affine surface that can be completed by a smooth curve. (English summary) **2000d:14046**
Lê Tuân Hoa *see* **Bresinsky, Henrik, 2000f:14046**

14R10 Affine spaces (automorphisms, embeddings, exotic structures, cancellation problem)

Cheng, Charles Ching-An (*with* van den Essen, Arno) Endomorphisms of the plane sending linear coordinates to coordinates. (English summary) **2000m:14072**
Dussaud, René Constructions birationnelles. (French summary) [Birational constructions] **2000f:14097**
van den Essen, Arno *see* **Cheng, Charles Ching-An, 2000m:14072**
Fournié, Michel (*with* Furter, Jean-Philippe; Pinchon, Didier) Computation of the maximal degree of the inverse of a cubic automorphism of the affine plane with Jacobian 1 via Gröbner bases. (English summary) **2000b:14085**
Furter, Jean-Philippe On the degree of iterates of automorphisms of the affine plane. (English summary) **2000b:14086**
— *see also* **Fournié, Michel et al., 2000b:14085**
Jelonek, Zbigniew A solution of the problem of van den Essen and Shpilrain. (English summary) **2000b:14087**
— Testing sets for properness of polynomial mappings. (English summary) **2000g:14064**
— Test polynomials. (English summary) **2000m:14073**
Karaś, Marek Geometric degree of finite extensions of projections. (English summary) **2000m:14074**
Lavrenyuk, Ya. V. On normal subgroups of Jonkier [de Jonquières] group. (English and Russian summaries) **2000b:14088**
Ohta, Tomoaki The structure of algebraic embeddings of $\mathbf{C}^2$ into $\mathbf{C}^3$ (the cubic hypersurface case). **2000b:14089**
Pinchon, Didier *see* **Fournié, Michel et al., 2000b:14085**

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Koras, Mariusz (*with* Russell, Peter) $\mathbf{C}^*$-actions on $\mathbf{C}^3$: the smooth locus of the quotient is not of hyperbolic type. **2000g:14067**
Russell, Peter *see* **Koras, Mariusz, 2000g:14067**

14R15 Jacobian problem

Abhyankar, Shreeram S. (*with* Assi, Abdallah) Jacobian of meromorphic curves. (English summary) **2000i:14086**
Assi, Abdallah Meromorphic plane curves. **2000d:14066**
— *see also* **Abhyankar, Shreeram S., 2000i:14086**
Domrina, A. V. (*with* Orevkov, S. Yu.) Four-sheeted polynomial mappings of $\mathbf{C}^2$. I. The case of an irreducible ramification curve. (Russian. Russian summary) **2000b:14090**
— Four-sheeted polynomial mappings in $\mathbf{C}^2$. The general case. (Russian) **2000j:14099**
Druzkowski, L. M. Partial results and equivalent formulations of the Jacobian conjecture. (English summary) **2000d:14067**
van den Essen, Arno To believe or not to believe: the Jacobian conjecture. (English summary) **2000d:14068**
— A counterexample to Meisters' cubic-linear linearization conjecture. (English summary) **2000g:14065**
Formanek, Edward Bass's work on the Jacobian conjecture. (English summary) **2000m:14075**
Katsylo, P. I. On the degrees of polynomial mappings from $\mathbf{C}^2$ into $\mathbf{C}^2$. (Russian. Russian summary) **2000d:14069**
Moh, Tzuong Tsieng Jacobian conjecture. (English summary) **2000i:14087**
Nguyen Van Chau Non-zero constant Jacobian polynomial maps of $\mathbf{C}^2$. (English summary) **2000e:14098**
Orevkov, S. Yu. *see* **Domrina, A. V., 2000b:14090**
Ossowski, Piotr On the formal inverse of polynomial endomorphisms. **2000d:14070**
Peretz, Ronen Applications of induced resultants to polynomial maps. (English summary) **2000g:14066**
Shpilrain, Vladimir (*with* Yu, Jie-Tai) Polynomial retracts and the Jacobian conjecture. (English summary) **2000c:14080**
Stovbyr, S. A. On the Keller problem. (Russian) (*see* **2000g:00029**)
Videla, Carlos R. A note on polynomial automorphisms. (Spanish) **2000k:14046**
Vistoli, Angelo The Jacobian conjecture in dimension 3 and degree 3. (English summary) **2000i:14088**
Vitushkin, A. G. A criterion for the representability of a chain of σ-processes by a composition of triangular chains. (Russian. Russian summary) **2000f:14098**
— Computation of the Jacobian of a rational transformation of $\mathbf{C}^2$ and some applications. (Russian) **2000k:14047**
Yu, Jie-Tai *see* **Shpilrain, Vladimir, 2000c:14080**

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Berceanu, Barbu Rudolf The topology of polynomial varieties. (English summary) **2000h:14011**
Fournié, Michel (*with* Furter, Jean-Philippe; Pinchon, Didier) Computation of the maximal degree of the inverse of a cubic automorphism of the affine plane with Jacobian 1 via Gröbner bases. (English summary) **2000b:14085**
Furter, Jean-Philippe *see* **Fournié, Michel et al., 2000b:14085**
Jelonek, Zbigniew A solution of the problem of van den Essen and Shpilrain. (English summary) **2000b:14087**
Mathieu, Olivier Some conjectures about invariant theory and their applications. (English and French summaries) **2000k:22014**
Maugendre, Hélène Discriminant d'un germe $(g, f)\colon (\mathbf{C}^2, 0) \to (\mathbf{C}^2, 0)$ et quotients de contact dans la résolution de $f \cdot g$. (English and French summaries) [Discriminant of a germ $(g, f)\colon (\mathbf{C}^2, 0) \to (\mathbf{C}^2, 0)$ and contact quotients in the resolution of $f \cdot g$] **2000a:32064**
Pinchon, Didier *see* **Fournié, Michel et al., 2000b:14085**

14R20 Group actions on affine varieties [see also 13A50, 14L30]

Asanuma, Teruo Non-linearizable algebraic k^*-actions on affine spaces. (English summary) **2000j:14100**
Ignatenko, V. F. The diametral theory of algebraic surfaces and the geometric theory of invariant groups generated by reflections. I. (Russian. English and Ukrainian summaries) **2000j:14101a**
— The diametral theory of algebraic surfaces and the geometric theory of invariant groups generated by reflections. II. (Russian. English and Ukrainian summaries) **2000j:14101b**
— The diametral theory of algebraic surfaces and the geometric theory of invariant groups generated by reflections. III. (Russian. English and Ukrainian summaries) **2000j:14101c**
Kaliman, Shulim (*with* Zaidenberg, M.) Affine modifications and affine hypersurfaces with a very transitive automorphism group. (English summary) **2000f:14099**
Koras, Mariusz (*with* Russell, Peter) $\mathbf{C}^*$-actions on $\mathbf{C}^3$: the smooth locus of the quotient is not of hyperbolic type. **2000g:14067**
Lamy, Stéphane Les automorphismes polynomiaux de $\mathbf{C}^3$ préservant une forme quadratique. (English and French summaries) [Polynomial automorphisms of $\mathbf{C}^3$ preserving a quadratic form] **2000f:14100**
Oka, Mutsuo[1] Moduli space of smooth affine curves of a given genus with one place at infinity. (English summary) **2000a:14068**
Russell, Peter *see* **Koras, Mariusz, 2000g:14067**
Zaidenberg, M. *see* **Kaliman, Shulim, 2000f:14099**

14R25 Affine fibrations [see also 14D06]

Le Van Thanh An affine algebraic type of the Plücker-Milnor formula on $\mathbf{C}^2$. (English summary) **2000e:14099**

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Jelonek, Zbigniew A number of points in the set $\mathbf{C}^2 \setminus F(\mathbf{C}^2)$. (English summary) **2000h:14053**
Lenarcik, Andrzej On the Łojasiewicz exponent of the gradient of a polynomial function. (English summary) **2000j:14102**

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Ballico, Edoardo Algebraic approximation of analytic coherent sheaves. **2000c:32033**
Berest, Yu. Yu. (*with* Wilson, George) Classification of rings of differential operators on affine curves. **2000f:14025**
Wilson, George *see* **Berest, Yu. Yu., 2000f:14025**

15–XX Linear and multilinear algebra; matrix theory

15–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items listed otherwise than by author

Index:
Linear Algebra Appl. Index for Volumes 201–300. **2000j:00004**

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

Allgower, Eugene L. (*with* Fässler, Albert F.) Block structure and equivalence of matrices. **2000i:15001**
Berry, Michael W. (*with* Drmač, Zlatko; Jessup, Elizabeth R.) Matrices, vector spaces, and information retrieval. (English summary) **2000b:15001**
Bressoud, David M. ★ Proofs and confirmations. (English summary) **2000i:15002**
Drmač, Zlatko *see* **Berry, Michael W. et al., 2000b:15001**
Fässler, Albert F. *see* **Allgower, Eugene L., 2000i:15001**
Grauert, Hans (*with* Grunau, Hans-Christoph) ★ Lineare Algebra und analytische Geometrie. (German. German summary) [Linear algebra and analytic geometry] **2000k:15001**
Grunau, Hans-Christoph *see* **Grauert, Hans, 2000k:15001**
Jessup, Elizabeth R. *see* **Berry, Michael W. et al., 2000b:15001**
Magnus, Jan R. (*with* Neudecker, Heinz) ★ Matrix differential calculus with applications in statistics and econometrics. (English summary) **2000d:15001**
Neudecker, Heinz *see* **Magnus, Jan R., 2000d:15001**
Popescu, Angel ★ Algebră liniară şi aplicaţii. (Romanian. Romanian summary) [Linear algebras and applications]
Schmidt-Göttsch, Karsten (*with* Trenkler, Götz) ★ Moderne Matrix-Algebra. (German. German summary) [Modern matrix algebra]
Sharma, Chandra Shekhar Mathematics in 2 × 2 matrices. (English summary)
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Aboufadel, Edward (*with* Schlicker, Steven) ★ Discovering wavelets. (English summary) **2000k:42047**
Grubb, Anthea On Dirac's bra-ket formalism. (English summary) **2000h:81001**
Meunier, Pierre ★ Cours de mathématiques. (French. French summary) [Mathematics course]
Schlicker, Steven *see* **Aboufadel, Edward, 2000k:42047**
Schwenk, Allen J. The steady state sabbatical rate. **2000g:15004**

15–02 Research exposition (monographs, survey articles)

Bressoud, David M. (*with* Propp, James) How the alternating sign matrix conjecture was solved. **2000k:15002**
Godunov, Sergeĭ Konstantinovich ★ Modern aspects of linear algebra. (English summary) **2000m:15001**
Propp, James *see* **Bressoud, David M., 2000k:15002**
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Steeb, Willi-Hans ★ Matrix calculus and Kronecker product with applications and C++ programs. **2000c:15001**
Szép, Jenő ★ Vectorproducts and applications. (English summary) **2000h:15001**

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Cottle, Richard W. Quartic barriers. (English summary) **2000i:90055**
Murota, Kazuo ★ Matrices and matroids for systems analysis. (English summary) **2000m:93006**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

(Grassmann, Hermann Günther) *see* **Peano, Giuseppe, 2000g:01044**
(Kannenberg, Lloyd C.) *see* **Peano, Giuseppe, 2000g:01044**
Peano, Giuseppe ★ Geometric calculus. (English summary) **2000g:01044**
Szigeti, J. Research in algebra during the 50 years of the University in Miskolc. (English summary) **2000j:01118**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Emiris, Ioannis Z. (*with* Pan, Victor Y.; Yu, Yanqiang) Modular arithmetic for linear algebra computations in the real field. (English summary) **2000f:15001**
Greenhill, Catherine An algorithm for recognising the exterior square of a matrix. (English summary) **2000d:15002**
Kalinov, A. Ya. A nonhomogeneous two-dimensional block-cyclic distribution of data for solving linear algebra problems on nonhomogeneous computer networks. (Russian. Russian summary)
Li, Lei[1] *see* **Tsatsomeros, Michael J., 2000m:15002**
Pan, Victor Y. *see* **Emiris, Ioannis Z. et al., 2000f:15001**
Tsatsomeros, Michael J. (*with* Li, Lei[1]) A recursive test for P-matrices. (English summary) **2000m:15002**
Yu, Yanqiang *see* **Emiris, Ioannis Z. et al., 2000f:15001**

Items with secondary classifications in 15–04

Lê, Dinh (*with* Parker, D. Stott) Using randomization to make recursive matrix algorithms practical. (English summary) **2000m:65063**
Mereghetti, Carlo (*with* Palano, Beatrice) Threshold circuits for some matrix operations. Consequences on regular and probabilistic languages. (English summary) **2000d:68061**
Morozov, V. A. (*with* Vazhenin, A. P.) A matrix arithmetic of multiple accuracy for parallel systems with exchange of messages. (Russian. Russian summary) **2000f:65047**
Mulders, Thom *see* **Storjohann, Arne, 2000a:65056**
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Storjohann, Arne (*with* Mulders, Thom) Fast algorithms for linear algebra modulo N. (English summary) **2000a:65056**
Tiskin, Alexandre Erratum: "Bulk-synchronous parallel multiplication of Boolean matrices" [in *Automata, languages and programming (Aalborg, 1998)*, 494–506, Lecture Notes in Comput. Sci., 1443, Springer, Berlin, 1998]. (English summary) (*see* **2000j:68001**)
Vazhenin, A. P. *see* **Morozov, V. A., 2000f:65047**
Zhang, Zhen Xiang The complexity of an improved algorithm for matrix multiplication. (Chinese. English and Chinese summaries)

15–06 Proceedings, conferences, collections, etc.

(Dias da Silva, J. A.) *see* **Invariant factors, 2000d:15003**
(Silva, Fernando C.) *see* **Invariant factors, 2000d:15003**
(Zaballa, I.) *see* **Invariant factors, 2000d:15003**

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Invariant factors ★ Invariant factors. **2000d:15003**
Special Issue:
Invariant factors ★ Invariant factors. **2000d:15003**

Items with secondary classifications in 15–06

(Barlow, Jesse L.) *see* **Proceedings: Workshop on Accurate Solution of Eigenvalue Problems, 2000m:65010**
(Cain, Bryan E.) *see* **Special Issue: Schneider, Hans, 2000g:00091**
(Datta, Biswa Nath) *see* **Special Issue: Schneider, Hans, 2000g:00091**
(Goldberg, Moshe) *see* **Special Issue: Schneider, Hans, 2000g:00091**
(Košir, Tomaž) *see* **Meeting: Linear Algebra, 2000c:47002**
(Omladič, Matjaž) *see* **Meeting: Linear Algebra, 2000c:47002**
(Parlett, Beresford N.) *see* **Proceedings: Workshop on Accurate Solution of Eigenvalue Problems, 2000m:65010**
(Rothblum, Uriel G.) *see* **Special Issue: Schneider, Hans, 2000g:00091**
(Schneider, Hans) *see* **Special Issue: Schneider, Hans, 2000g:00091**
(Shipshina, A. G.) *see* **Algebra, 2000j:00036**
(Szyld, Daniel B.) *see* **Special Issue: Schneider, Hans, 2000g:00091**
(Veselić, Krešimir) *see* **Proceedings: Workshop on Accurate Solution of Eigenvalue Problems, 2000m:65010**

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Algebra ★ Algebra. 9. **2000j:00036**
Bled ★ Drugo Srečanje iz Linearne Algebre. [The Second Meeting on Linear Algebra] **2000c:47002**
Coeur d'Alene, ID ★ Sparse and structured matrices and their applications. **2000e:65014**
Conference:
International Linear Algebra Society ★ Special issue dedicated to Hans Schneider. **2000g:00091**
Sparse Matrices ★ Sparse and structured matrices and their applications. **2000e:65014**
Festschrift:
Schneider, Hans ★ Special issue dedicated to Hans Schneider. **2000g:00091**
Madison, WI ★ Special issue dedicated to Hans Schneider. **2000g:00091**
Meeting:
Linear Algebra ★ Drugo Srečanje iz Linearne Algebre. [The Second Meeting on Linear Algebra] **2000c:47002**
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Sparse and structured matrices and their applications ★ Sparse and structured matrices and their applications. **2000e:65014**
Special Issue:
Schneider, Hans ★ Special issue dedicated to Hans Schneider. **2000g:00091**
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15A03 Vector spaces, linear dependence, rank

Bart, H. (*with* Wagelmans, A. P. M.) An integer programming problem and rank decomposition of block upper triangular matrices. (English summary) **2000j:15001**
Beceanu, Maria *see* **Pletea, Ariadna Lucia, 2000g:15002**
Borş, Dan-Mircea (*with* Ciobanu, Liviu; Gontineac, Mihai; Grămadă, V.) Quasi-linear functions. (English and Romanian summaries)
Brown, William C. Null ideals and spanning ranks of matrices. II. (English summary) **2000k:15003**
Ciobanu, Liviu *see* **Borş, Dan-Mircea et al.**
Codenotti, Bruno Matrix rigidity. (English summary) **2000j:15002**

Danilov, Vladimir Ivanovich[1] (*with* Grishukhin, V. P.) Maximal unimodular systems of vectors. (English summary) **2000d:15004**
Go, Jinji *see* **Liu, Shaowu, 2000h:15004**
Gontineac, Mihai *see* **Borş, Dan-Mircea et al.**
Gorokhovik, V. V. (*with* Shinkevich, E. A.) Stepped preorder relations on vector spaces. (Russian. English and Russian summaries) **2000k:15004**
Grămadă, V. *see* **Borş, Dan-Mircea et al.**
Grishukhin, V. P. *see* **Danilov, Vladimir Ivanovich[1], 2000d:15004**
Groß, Jürgen (*with* Trenkler, Götz; Troschke, Sven-Oliver) The vector cross product in $\mathbf{C}^3$. (English summary)
— On oblique projection, rank additivity and the Moore-Penrose inverse of the sum of two matrices. (English summary) **2000h:15002**
— (*with* Trenkler, Götz) Nonsingularity of the difference of two oblique projectors. (English summary) **2000h:15003**
Li, Shi Qun[2] *see* **Liu, Ru Yan, 2000a:15001**
Li, Zhen Guo The numbers of subspaces of $V(F,n)$ having certain properties P. (Chinese. English and Chinese summaries)
Liu, Bao Cang *see* **Zhang, Cheng Yi**
Liu, Ru Yan (*with* Li, Shi Qun[2]) Conditions for the trace inequality to hold for some matrix products. (Chinese. English and Chinese summaries) **2000a:15001**
Liu, Shaowu (*with* Go, Jinji) Rank one preservers on symmetric matrix spaces. (English and Chinese summaries) **2000h:15004**
Lou, You Shi *see* **Wang, Yao Hong et al., 2000k:15005**
Mel'nikova, I. A. Maximal isotropic subspaces of a skew-symmetric bilinear mapping. (Russian. Russian summary) **2000j:15003**
Onciulescu, I. A direct method for a Jordan basis in an n-dimensional vector space. (English and Romanian summaries) **2000g:15001**
Pletea, Ariadna Lucia (*with* Beceanu, Maria) The construction of a Jordan basis. (English and Romanian summaries) **2000g:15002**
de Sá, Eduardo Marques (*with* Zhang, Yu-Lin) Ranks of submatrices and the off-diagonal indices of a square matrix. (English summary) **2000i:15003**
Shinkevich, E. A. *see* **Gorokhovik, V. V., 2000k:15004**
So, Wasin Linear operators preserving the minimal rank. (English summary) **2000m:15003**
Swanepoel, Konrad J. Balancing unit vectors. (English summary) **2000i:15004**
Tang, Lingqi *see* **Wang, Yao Hong et al., 2000k:15005**
Terwilliger, Paul An introduction to Leonard pairs and Leonard systems. (English summary) (*see* **2000m:05002**)
Trenkler, Götz *see* **Groß, Jürgen et al., 2000h:15003**
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Vasantha Kandasamy, W. B. Bi-vector spaces. (English summary)
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Wang, Yao Hong (*with* Tang, Lingqi; Lou, You Shi) An application of cross products in probability. (English summary) **2000k:15005**
Xi, Bo Yan Some equality properties for the words of matrices. (Chinese. English and Chinese summaries) **2000k:15006**
Yuan, Rong A characterization of n-extendable TC S-matrices with trace 4. (Chinese. English and Chinese summaries)
Zhang, Cheng Yi (*with* Liu, Bao Cang) Fuzzy linear space and fuzzy vectors. (Chinese. English and Chinese summaries)
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Burzyk, Józef (*with* Kamiński, Andrzej) On property K in F-spaces. (English summary) **2000j:46009**
Cairns, Grant (*with* Elton, G.; Stacey, P. J.) Math bite: on the definition of collineation.
Elton, G. *see* **Cairns, Grant et al.**
Gorokhovik, V. V. (*with* Shinkevich, E. A.) Analytic representation of infinite-dimensional half-spaces by step-affine functions. (Russian. English summary) **2000i:52003**
Kamiński, Andrzej *see* **Burzyk, Józef, 2000j:46009**
Kuhlmann, Salma Infinitary properties of valued and ordered vector spaces. **2000h:03072**
Richman, Fred *see* **Bridges, Douglas S. et al., 2000j:03089**
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Skrzyński, Marcin Remarks on applications of rank functions to algebraic sets of matrices. **2000g:14004**
Stacey, P. J. *see* **Cairns, Grant et al.**
Varenik, V. V. Multioperator algebras of Menger type. (Russian. English and Russian summaries) **2000h:15042**

15A04 Linear transformations, semilinear transformations

Beasley, LeRoy B. (*with* Lee, Sang-Gu; Lee, You-Ho) Linear operators strongly preserving multivariate majorization. (English summary) (*see* **2000c:00048**)
— (*with* Lee, Sang-Gu; Lee, You-Ho) Linear operators strongly preserving multivariate majorization with $T(I) = I$. (English summary) **2000f:15002**
— (*with* Lee, Sang-Gu) Linear operators preserving multivariate majorization. (English summary) **2000i:15005**
Cao, Chong Guang *see* **Tang, Xiao Min et al., 2000i:15006**
Cheon, Gi-Sang *see* **Song, Seok Zun et al., 2000k:15007**
Lee, Gwang-Yeon *see* **Song, Seok Zun et al., 2000k:15007**
Lee, Sang-Gu *see* **Beasley, LeRoy B. et al., 2000f:15002**;**2000i:15005** *and* (**2000c:00048**)
Lee, You-Ho *see* **Beasley, LeRoy B. et al., 2000f:15002** *and* (**2000c:00048**)
Livshits, Leonya Transitive linear semigroups. (English and Slovenian summaries) (*see* **2000c:47002**)
Šemrl, Peter Linear maps preserving invertibility. (English and Slovenian summaries) (*see* **2000c:47002**)
Song, Seok Zun (*with* Cheon, Gi-Sang; Lee, Gwang-Yeon) Maximal column rank preservers of nonnegative integer matrices. (English summary) **2000k:15007**
Tang, Xiao Min (*with* Zhang, Xian[2]; Cao, Chong Guang) Additive adjugate preservers on the matrices over fields. (English summary) **2000i:15006**
Tian, Guo Hua Adjoint and transposed operators. (Chinese. English and Chinese summaries)
Vol'vachev, R. T. (*with* Yanovich, L. A.) Linear interpolation of operators in spaces of rectangular matrices. (Russian. English and Russian summaries) **2000k:15008**
Yanovich, L. A. *see* **Vol'vachev, R. T., 2000k:15008**
Zhang, Wei[3] A characterization of the class of linear transformations preserving a fixed angle in Euclidean space. (Chinese. English and Chinese summaries)
Zhang, Xian[2] (*with* Zhao, Zhihong) Linear operators preserving involutory matrices over Z_2. (English and Chinese summaries)
— *see also* **Tang, Xiao Min et al., 2000i:15006**
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Cao, Chong Guang *see* **Zhang, Xian[2], 2000f:15004**
Drnovšek, Roman (*with* Livshits, Leonya; MacDonald, Gordon Wilson; Mathes, D. Benjamin; Radjavi, Heydar; Šemrl, Peter) On transitive linear semigroups. (English summary) **2000i:20100**
Koch, Michael (*with* Lemmert, Roland) Spectral representation and characterizations of locally algebraic linear transformations. **2000b:47006**
Lemmert, Roland *see* **Koch, Michael, 2000b:47006**
Livshits, Leonya *see* **Drnovšek, Roman et al., 2000i:20100**
MacDonald, Gordon Wilson *see* **Drnovšek, Roman et al., 2000i:20100**
Mathes, D. Benjamin *see* **Drnovšek, Roman et al., 2000i:20100**
Radjavi, Heydar *see* **Drnovšek, Roman et al., 2000i:20100**
Šemrl, Peter *see* **Drnovšek, Roman et al., 2000i:20100**
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van der Walt, Andries P. J. Near-linear transformations of near-vector spaces. **2000m:16063**
Zhang, Xian[2] (*with* Cao, Chong Guang) Linear operators strongly preserving M-P inverses of matrices over some antinegative commutative semirings. (English and Chinese summaries) **2000f:15004**

15A06 Linear equations

Bini, Dario Andrea (*with* Meini, Beatrice) Effective methods for solving banded Toeplitz systems. (English summary) **2000a:15002**
Cechlárová, Katarína (*with* Diko, Pavel) Resolving infeasibility in extremal algebras. (English summary) **2000a:15003**
— A note on unsolvable systems of max-min (fuzzy) equations. (English summary) **2000k:15009**
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Meini, Beatrice *see* **Bini, Dario Andrea, 2000a:15002**
Pasichnik, T. V. Abramov's elimination method for linear problems.
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Tsatsomeros, Michael J. Principal pivot transforms: properties and applications. (English summary) **2000m:15004**

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Abramchuk, V. S. Rapidly converging iterative methods for solving the equations $A\vec{x} = \vec{b}$ and the matrix equations $A\vec{x} = B$. (Ukrainian. English summary)
Alekseĭchuk, A. N. On the uniqueness of the moment problem in the class of q-distributions. (Russian. Russian summary) **2000a:60027**
— Limit distributions of the number of solutions of a system of random linear homogeneous equations with a uniform coefficient matrix over a finite local ring. (Russian. English and Ukrainian summaries) **2000d:15012**
Bar-On, Ilan (*with* Leoncini, Mauro) Reliable solution of bidiagonal systems with applications. (English summary) **2000f:65020**
Barth, Teri (*with* Manteuffel, Thomas A.) Multiple recursion conjugate gradient algorithms. I. Sufficient conditions. (English summary) **2000m:65042**
Butkovic, P. *see* **Gaubert, Stéphane, 2000j:15007**
Cai, Fang The convergence rate of asynchronous iteration for solving systems of linear equations. (Chinese. English and Chinese summaries)
Chandrasekaran, Shivkumar (*with* Golub, Gene Howard; Gu, Ming; Sayed, Ali H.) An efficient algorithm for a bounded errors-in-variables model. (English summary) **2000g:65027**
Cox, Anthony J. (*with* Higham, Nicholas J.) Backward error bounds for constrained least squares problems. (English summary) **2000d:65066**
Demmel, James W. (*with* Gilbert, John R.; Li, Xiaoye S.) An asynchronous parallel supernodal algorithm for sparse Gaussian elimination. (English summary) **2000g:65037**
Druskin, Vladimir *see* **Greenbaum, Anne et al., 2000a:65037**
Èĭdel'man, Yu. S. (*with* Gohberg, Israel) Linear complexity inversion algorithms for a class of structured matrices. (English summary) **2000k:65053**
Fischer, Hans-Jürgen Fast solution of confluent Vandermonde-like linear systems using polynomial arithmetic. (English summary) **2000m:65040**
Gaubert, Stéphane (*with* Butkovic, P.) Sign-nonsingular matrices and matrices with unbalanced determinant in symmetrised semirings. (English summary) **2000j:15007**
Gilbert, John R. *see* **Demmel, James W. et al., 2000g:65037**
Gohberg, Israel *see* **Èĭdel'man, Yu. S., 2000k:65053**
Golub, Gene Howard *see* **Chandrasekaran, Shivkumar et al., 2000g:65027**
Greenbaum, Anne (*with* Druskin, Vladimir; Knizhnerman, Leonid) On solving indefinite symmetric linear systems by means of the Lanczos method. (English summary) **2000a:65037**
Gu, Ming *see* **Chandrasekaran, Shivkumar et al., 2000g:65027**
Higham, Nicholas J. *see* **Cox, Anthony J., 2000d:65066**
Knizhnerman, Leonid *see* **Greenbaum, Anne et al., 2000a:65037**
Lee, Gwang-Yeon (*with* Shader, Bryan L.) Sign-consistency and solvability of constrained linear systems. (English summary) **2000f:90032**
Leoncini, Mauro *see* **Bar-On, Ilan, 2000f:65020**

Li, Xiaoye S. *see* **Demmel, James W. et al., 2000g:65037**
Ligęza, J. (*with* Tvrdý, Milan) On systems of linear algebraic equations in the Colombeau algebra. (English summary) **2000c:46079**
Manteuffel, Thomas A. *see* **Barth, Teri, 2000m:65042**
Rost, Karla (*with* Vavřín, Zdeněk) Rational interpolation and recursive solution of Löwner-Vandermonde systems of equations. (English summary) **2000m:65041**
Sayed, Ali H. *see* **Chandrasekaran, Shivkumar et al., 2000g:65027**
Segethová, Jitka Incomplete block factorizations applied to the biconjugate gradient method. (*see* **2000c:00048**)
Shader, Bryan L. *see* **Lee, Gwang-Yeon, 2000f:90032**
Simon, Horst D. *see* **Zha, Hongyuan, 2000g:68034**
Stanimirović, Predrag S. Determinantal representation of $\{I, J, K\}$ inverses and solution of linear systems. **2000k:15011**
Sun, Jianping *see* **Zhang, Yan'e et al.**
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Wang, Xi Zhao *see* **Zhang, Yan'e et al.**
Wei, Yi Min Perturbation bound of singular linear systems. (English summary) **2000j:65046**
— (*with* Wu, He Bing) Convergence properties of Krylov subspace methods for singular linear systems with arbitrary index. (English summary) **2000k:65073**
Wu, He Bing *see* **Wei, Yi Min, 2000k:65073**
Yin, Qiao Feng Solution methods for a class of systems of linear equations of special form and their applications. (Chinese. English and Chinese summaries)
Zha, Hongyuan (*with* Simon, Horst D.) On updating problems in latent semantic indexing. (English summary) **2000g:68034**
Zhang, Yan'e (*with* Sun, Jianping; Wang, Xi Zhao) A method to solve systems of fuzzy linear equations. (English summary)

15A09 Matrix inversion, generalized inverses

Bapat, R. B. Linear estimation in models based on a graph. (English summary) **2000h:15006**
Cao, Chong Guang *see* **Zhang, Xian², 2000f:15004**
Chen, Huan Yin *see* **Wei, Li Juan**
Chen, Yue Hui The $(1, 2, \cdots, i)$-inverses of partitioned matrices over a P-division ring. (Chinese. English and Chinese summaries)
Coxson, Gregory E. Computing exact bounds on elements of an inverse interval matrix is NP-hard. (English summary) **2000d:15005**
Du, Xian Gang The inverse matrix of a Vandermonde matrix and some functional identities. (Chinese. English and Chinese summaries)
Erokhin, V. I. A generalization of the Sherman-Morrison identity to the case of a rank-one modification of a pseudo-inverse matrix of full rank. (Russian. Russian summary)
Eschenbach, Carolyn A. (*with* Hall, Frank J.; Harrell, Deborah L.; Li, Zhongshan) When does the inverse have the same sign pattern as the transpose? (English summary) **2000c:15002**
Fu, Hong Hai *see* **Zhang, Xian², 2000m:15005**
Hall, Frank J. *see* **Eschenbach, Carolyn A. et al., 2000c:15002**
Harrell, Deborah L. *see* **Eschenbach, Carolyn A. et al., 2000c:15002**
Hoffman, Alan J. Gersgorin variations. I. On a theme of Pupkov and Solov′ev. (English summary) **2000k:15010**
Huang, Ting Zhu *see* **Li, Wen¹, 2000h:15008**
Koliha, J. J. A simple proof of the product theorem for EP matrices. (English summary) **2000c:15003**
Li, Tao Sheng Generalized inverses of block matrices. (Chinese. English and Chinese summaries) **2000h:15007**
Li, Wen¹ (*with* Huang, Ting Zhu) Gudkov's criterion for nonsingularity of matrices. (Chinese. English and Chinese summaries) **2000h:15008**
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Liu, Bo Lian *see* **Luo, Hua**
Liu, Gui Xiang The singularity of a partitioned matrix $\left[\begin{smallmatrix} A & B \\ C & D \end{smallmatrix}\right]$. (Chinese. English and Chinese summaries) **2000f:15003**
— On g-inverses of a matrix M over a ring. (Chinese. English and Chinese summaries)
Liu, Yu Linear operators that preserve M-P inverses of matrices over a skew field. (Chinese. English and Chinese summaries)
Luo, Hua (*with* Liu, Bo Lian) A simple algorithm for the maximum g-inverse and the minimal g-inverses of a Boolean matrix. (Chinese. English and Chinese summaries)
Mallik, Ranjan K. The inverse of a lower triangular matrix. (English summary) **2000a:15004**
Mitra, Sujit Kumar Diagrammatic presentation of inner and outer inverses: S-diagrams. (English summary) **2000b:15002**
Nabben, Reinhard Two-sided bounds on the inverses of diagonally dominant tridiagonal matrices. (English summary) **2000a:15005**
Ouyang, Ming Xi The form of the Moore-Penrose inverse of a morphism. (Chinese. English and Chinese summaries) **2000g:15003**
Reams, Robert Hadamard inverses, square roots and products of almost semidefinite matrices. (English summary) **2000c:15004**
Stanimirović, Predrag S. Block representations of $\{2\}$, $\{1, 2\}$ inverses and the Drazin inverse of matrices. (English summary) **2000a:15006**
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— General determinantal representation of generalized inverses of matrices over integral domains. (English summary) **2000e:15001**
Stoyan, V. A. On formulas for calculating finite increments of pseudo-inverse matrices and matrix functions. (Ukrainian. English summary)
Tan, Dao Sheng (*with* Wen, Qi Yu) Inverses of arbitrarily partitioned matrices and their applications. (Chinese. English and Chinese summaries)
Tian, Yongge The Moore-Penrose inverses of $m \times n$ block matrices and their applications. (English summary) **2000c:15005**
Wei, Li Juan (*with* Chen, Huan Yin) Generalized inverses of matrices over a class of rings. (Chinese. English and Chinese summaries)
Wei, Musheng Reverse order laws for generalized inverses of multiple matrix products. (English summary) **2000d:15006**
Wei, Yi Min (*with* Wu, He Bing) Expression for the perturbation of the weighted Moore-Penrose inverse. (English summary) **2000j:15004**
Wen, Qi Yu *see* **Tan, Dao Sheng**
Wittenburg, Jens Inversion of tridiagonal Toeplitz and periodic matrices with applications to mechanics. (Russian. Russian summary) **2000c:15006**
Wu, He Bing *see* **Wei, Yi Min, 2000j:15004**
Yin, Zhao (*with* Zhong, Wei Min; Zhao, Li Jun) A generalized inverse matrix solution method for systems of linear equations. (Chinese. English and Chinese summaries)
Zhang, Jin Chuan The reverse order law for the Moore-Penrose inverse of the product of three matrices over a noncommutative principal ideal domain. (Chinese. English and Chinese summaries)
Zhang, Xian² (*with* Cao, Chong Guang) Linear operators strongly preserving M-P inverses of matrices over some antinegative commutative semirings. (English and Chinese summaries) **2000f:15004**
— (*with* Fu, Hong Hai) Covariant operator pairs on Moore-Penrose inverses of matrices over the 0-1 Boolean algebra. (Chinese. English and Chinese summaries) **2000m:15005**
Zhao, Li Jun *see* **Yin, Zhao et al.**
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Adukov, V. M. Generalized inversion of finite rank Hankel and Toeplitz operators with rational matrix symbols. (English summary) **2000b:47071**
Al-Musallam, Fadhel *see* **Heinig, Georg, 2000a:41006**
Bu, Chang Jiang *see* **Zhang, Xian² et al., 2000c:15022**
Bulut, S. Aysun Construction and algebraic characterizations of the planar and axial transportation problems. (English summary) **2000d:90006**
Cao, Chong Guang *see* **Zhang, Xian² et al., 2000c:15022**
Chen, Guo Long The inverses of infinite matrices on a division ring. (Chinese. English and Chinese summaries)
Chen, Yong Lin Notes on limit representations of the generalized inverse $A^{(2)}_{T,S}$. (Chinese. English summary) **2000d:65065**
— A unified form of the necessary and sufficient conditions for the continuity of many generalized inverses of matrices in common use. (Chinese. English and Chinese summaries) **2000i:65060**
Ciecierska, Grażyna A note on another method of computing the Moore-Penrose inverse of a matrix. **2000b:65070**
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15A18 Eigenvalues, singular values, and eigenvectors

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15A24 Matrix equations and identities

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15A66 Clifford algebras, spinors

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15A69 Multilinear algebra, tensor products

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15A75 Exterior algebra, Grassmann algebras

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15A78 Other algebras built from modules

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15A99 Miscellaneous topics

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16–XX Associative rings and algebras {For the commutative case, see 13–XX.}

16–01 Instructional exposition (textbooks, tutorial papers, etc.)

Beachy, John A. ★ Introductory lectures on rings and modules. (English summary) **2000j:16001**

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Müller, Wolfgang[1] Algebra. (German) **2000j:00003**
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16–02 Research exposition (monographs, survey articles)

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16–03 Historical (must also be assigned at least one classification number from Section 01)

Zimmermann, Alexander Historical remarks. (*see* **2000g:16018**)

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Dikranjan, Dikran Orsatti's contribution to topological algebra. **2000a:01029**
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(Noether, Emmy) *see* **Scharlau, Winfried, 2000b:01023**
(Orsatti, Adalberto) *see* **Menini, Claudia, 2000a:01028** *and* **Dikranjan, Dikran, 2000a:01029**
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Scimone, Aldo *see* **Brigaglia, Aldo, 2000d:01015**
Szigeti, J. Research in algebra during the 50 years of the University in Miskolc. (English summary) **2000j:01118**

16–06 Proceedings, conferences, collections, etc.

(Betsch, Gerhard) *see* **Near-rings and near-fields, 2000g:16001**
(Dräxler, Peter) *see* **Computational methods for representations of groups and algebras, 2000d:16001**
(Michler, Gerhard O.) *see* **Computational methods for representations of groups and algebras, 2000d:16001**
(Pilz, Günter F.) *see* **Near-rings and near-fields, 2000g:16001**
(Ringel, Claus Michael) *see* **Computational methods for representations of groups and algebras, 2000d:16001**
(Sakharova, V. P.) *see* **Algebra, 2000c:16001**
(Saorín Castaño, M.) *see* **Interactions between ring theory and representations of algebras, 2000m:16001**
(Van Oystaeyen, Freddy) *see* **Interactions between ring theory and representations of algebras, 2000m:16001**
(Wefelscheid, Heinrich) *see* **Near-rings and near-fields, 2000g:16001**

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Computational methods for representations of groups and algebras ★ Computational methods for representations of groups and algebras. **2000d:16001**
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  Computational Methods for Representations of Groups and Algebras ★ Computational methods for representations of groups and algebras. **2000d:16001**
  Interactions between Ring Theory and Representations of Algebras ★ Interactions between ring theory and representations of algebras. **2000m:16001**
  Near-rings and Near-fields ★ Near-rings and near-fields. **2000g:16001**
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Near-rings and near-fields ★ Near-rings and near-fields. **2000g:16001**
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(Boulagouaz, M'hammed) *see* **Algebra and number theory, 2000g:00043**
(Castellón Serrano, A.) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
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(Fernández López, Antonio[1]) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
(Martín González, C.) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
(Shum, Kar Ping) *see* **Algebras and combinatorics, 2000j:00015**
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Algebra and number theory ★ Algebra and number theory. **2000g:00043**
Algebras and combinatorics ★ Algebras and combinatorics. **2000j:00015**
Conference:
  Algebra and Number Theory ★ Algebra and number theory. **2000g:00043**
  Jordan Structures ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
Congress:
  Algebras and Combinatorics ★ Algebras and combinatorics. **2000j:00015**
Hong Kong ★ Algebras and combinatorics. **2000j:00015**
Málaga ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
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  Conference on Jordan Structures ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**

16Bxx General and miscellaneous

16B50 Category-theoretic methods and results (except as in 16D90) [see also 18–XX]

Keller, Bernhard On the construction of triangle equivalences. (English summary) (*see* **2000g:16018**)
König, Steffen Rickard's fundamental theorem. (*see* **2000g:16018**)
Sun, Shu-Hao On structure sheaves of non-commutative rings. (English summary) **2000f:16001**
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Linckelmann, Markus On stable equivalences of Morita type. (English summary) (*see* **2000g:16018**)
Radwan, Abd El-Aziz E. Morphisms of affine schemes and equivalence of categories. (English and Arabic summaries) **2000m:16043**

16B70 Applications of logic [see also 03Cxx]

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Prest, Mike (*with* Puninskiĭ, G. E.) Some model theory over hereditary Noetherian domains. (English summary) **2000b:03132**
Puninskaya, V. A. Vaught's conjecture for modules over a Dedekind prime ring. (English summary) **2000b:03133**
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16B99 None of the above, but in this section

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Piontkovskiĭ, D. I. On free products in varieties of associative algebras. (Russian. Russian summary) **2000g:16002**
Plotkin, B. Zero divisors in group-based algebras. Algebras without zero divisors. (English, Russian and Moldavian summaries)
Tudoran, Răzvan A class of rings of Boole type.

16Dxx Modules, bimodules and ideals

16D10 General module theory

Ahsan, Javed *see* **Liu, Zhong Kui, 2000f:16002**
Camillo, Victor P. (*with* Fuller, K. R.) On reflexivity of direct sums. (English summary) **2000m:16002**
Eisenbud, David (*with* de la Peña, José Antonio) Chains of maps between indecomposable modules. **2000a:16001**
Fuchs, P. R. (*with* Maxson, C. J.) When do maximal submodules force linearity? (English summary) **2000k:16001**
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Fuller, K. R. *see* **Camillo, Victor P., 2000m:16002**
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Kemper, Ralf Product-trace-rings and a question of G. S. Garfinkel. (English summary) **2000e:16002**
Liu, Zhong Kui (*with* Ahsan, Javed) Co-semisimple modules and generalized injectivity. (English summary) **2000f:16002**
Lomp, Christian On semilocal modules and rings. (English summary) **2000c:16003**
Maxson, C. J. *see* **Fuchs, P. R., 2000k:16001**
Özcan, Ayşe Çiğdem Some characterizations of V-modules and rings. (English summary) **2000b:16001**
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Zhu, Xiao Sheng Injectors, bi-injectors, flatjectors and coflatjectors. (Chinese. English and Chinese summaries) **2000b:16002**

Items with secondary classifications in 16D10

Burke, Kevin (*with* Prest, Mike) Rings of definable scalars and biendomorphism rings. (English summary) **2000h:03071**
Chen, Jianlong (*with* Ding, Nanqing) Characterizations of coherent rings. **2000b:16059**
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16D20 Bimodules

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Oh, Sei-Qwon Symplectic ideals of Poisson algebras and the Poisson structure associated to quantum matrices. **2000k:17026**
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Bae, Soon-Sook On the chain conditions of a faithful endo-flat module. (English summary) **2000f:16003**
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Zhao, Zhi Xin Remarks on quasi-perfect rings and FC-rings. (English and Chinese summaries) **2000d:16031**

16D50 Injective modules, self-injective rings [see also 16L60]

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Han, Chang Woo[2] (*with* Choi, Su Jeong) Some properties of a direct injective module. (English summary)
Harmancı, Abdullah (*with* Keskin, Derya; Smith, Patrick F.) On $\oplus$-supplemented modules. (English summary) **2000b:16005**
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Nam, S. B. *see* **Kim, Nam Kyun et al., 2000b:16006**
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Ou, Haiwen (*with* Dai, Zong Duo) Self-injective rings and linear (weak) inverses of linear finite automata over rings. (English summary) **2000b:16007**
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Rim, Seog-Hoon On the decomposition of CS-module and its applications. (English summary) **2000i:16005**
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Fuchs, P. R. (*with* Maxson, C. J.) When do maximal submodules force linearity? (English summary) **2000k:16001**
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Guo, Jin Yun Auslander Reiten conjecture and functor J_k^2. (English summary) **2000b:16024**
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16D60 Simple and semisimple modules, primitive rings and ideals

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Barthwal, S. (*with* Jhingan, Sujal; Kanwar, P.) A simple ring over which proper cyclics are continuous is a PCI-ring. (English summary) **2000a:16004**
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Komarnitskiĭ, N. Ya. The Cozzens-Faith problem on "countable" ultrapowers of the Koĭfman-Cozzens V-domain. (Russian. English and Russian summaries) **2000e:16001**
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Levy, Lawrence S. (*with* Robson, J. Chris) Hereditary Noetherian prime rings. I. Integrality and simple modules. (English summary) **2000i:16018**
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Nam, S. B. *see* **Kim, Nam Kyun et al., 2000b:16006**
Rim, Seog-Hoon On the decomposition of CS-module and its applications. (English summary) **2000i:16005**
Robson, J. Chris *see* **Levy, Lawrence S., 2000i:16018** *and* **2000i:16019**
Yood, Bertram On prime and primitive ideals. (English summary) **2000j:16005**

16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation

Bican, Ladislav Weak Krull-Schmidt theorem. (English summary) **2000i:16008**
Chen, Huan Yin Comparability structures over rings and modules. (Chinese. English and Chinese summaries)
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Chen, Huan Yin A note on the π-regularity of rings. (English summary) **2000d:16015**
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Eklof, Paul C. (*with* Trlifaj, Jan) Gamma invariants for dense lattices. (English summary) **2000f:06011**
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16D80 Other classes of modules and ideals [see also 16G50]

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Tuganbaev, A. A. Flat modules and distributive rings. **2000g:16005**
Xi, Changchang *see* **König, Steffen, 2000j:16025**

16D90 Module categories [see also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality

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Brodskiĭ, G. M. On representable functors in Morita theory. (Russian. Russian summary) **2000e:16006**
Cheng, Hui[2] *see* **Liu, Zhong Kui, 2000k:16005**
Deng, Pei Min Cotilting modules over coherent rings. (English and Chinese summaries) **2000a:16005**
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Assem, Ibrahim (*with* Happel, Dieter; Trepode, Sonia) Tilting up iterated tilted algebras. (English summary) **2000k:16017**
Beattie, Margaret (*with* del Río, Angel) Graded equivalences and Picard groups. (English summary) **2000i:16087**
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— *see also* **Burke, Kevin, 2000h:03071**
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16D99 None of the above, but in this section

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Yu, Yan-dong (*with* Wang, Zhu-deng) TL-subrings and TL-ideals. V. Prime TL-ideals and semiprime TL-ideals. (English and Chinese summaries)

16Exx Homological methods {For commutative rings, see 13Dxx; for general categories, see 18Gxx.}

16E05 Syzygies, resolutions, complexes

Goto, Shiro (*with* Nishida, Kenji) Minimal injective resolutions of Cohen-Macaulay isolated singularities. (English summary) **2000j:16013**
Nishida, Kenji *see* **Goto, Shiro, 2000j:16013**

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— (*with* García Rozas, Juan Ramon; Oyonarte, Luis; Jenda, Overtoun M. G.) Compact coGalois groups. (English summary) **2000m:20059**
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Podoplelov, Alexander *see* **Cojocaru, Svetlana et al., 2000i:16090**
Ufnarovskiĭ, V. A. *see* **Cojocaru, Svetlana et al., 2000i:16090**
Xu, Jinzhong *see* **Enochs, Edgar E. et al., 2000a:18010**

16E10 Homological dimension

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Hao, Zhi Feng The finitistic dimension of rings with Morita context. (English summary) **2000g:16013**
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Huang, Zhaoyong Extension closure of k-torsionfree modules. (English summary) **2000a:16009**
Iwanaga, Yasuo (*with* Miyachi, Jun-ichi) Modules of the highest homological dimension over a Gorenstein ring. (English summary) **2000a:16010**
Jiang, Zhifang The injective dimensions of projective modules. (English and Chinese summaries)
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Liu, Zhong Kui A note on almost excellent extensions of a right coherent ring. (English summary) **2000b:16013**
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Reiten, Idun Homological properties of almost split sequences. **2000a:16012**
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Soto, José J. M. Descent of the complete intersection property by homomorphisms of finite virtual projective dimension. (English and French summaries) **2000e:16009**
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Zhang, James J. *see* **Ajitabh, Kaushal et al., 2000h:16012**
Zhang, Zhibai Homological dimensions of graded simple modules. (English and Chinese summaries) **2000h:16013**
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Coelho, Michel (*with* Pézennec, Jean) On derived projective limits. (English summary) **2000c:18012**
Guo, Jin Yun Auslander Reiten conjecture and functor J_k^2. (English summary) **2000b:16024**
Happel, Dieter (*with* Unger, Luise) On subcategories associated with tilting modules. (English summary) **2000c:16015**
Huang, Zhaoyong On a generalization of the Auslander-Bridger transpose. (English summary) **2000m:16023**
Huard, François (*with* Liu, Shiping) Tilted special biserial algebras. **2000h:16022**
Kovilyanskaya, H. (*with* Mazorchuk, Vladimir) On incidence algebras associated with regular cell decomposition of S^n. (English summary) **2000g:16020**
Liu, Shiping *see* **Huard, François, 2000h:16022**
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Madsen, Dag Almost split sequences for commutative Artinian rings. **2000g:16021**
Martínez-Villa, Roberto Graded, selfinjective, and Koszul algebras. (English summary) **2000e:16038**
Martins, Ma. I. R. (*with* de la Peña, José Antonio) On local-extensions of algebras. **2000a:16028**
Mazorchuk, Vladimir *see* **Kovilyanskaya, H., 2000g:16020**
Miyachi, Jun-ichi Injective resolutions of Noetherian rings and cogenerators. (English summary) **2000k:16002**
de la Peña, José Antonio *see* **Martins, Ma. I. R., 2000a:16028**
Pézennec, Jean *see* **Coelho, Michel, 2000c:18012**
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Unger, Luise *see* **Happel, Dieter, 2000c:16015**

Wilkins, Elwood An equivalence induced by Ext and Tor applied to the finitistic weak dimension of coherent rings. **2000b:16010**

16E20 Grothendieck groups, K-theory, etc. [see also 18F30, 19Axx, 19D50]

Cibils, Claude The projective class ring of basic and split Hopf algebras. (English summary) **2000h:16014**
Facchini, Alberto (*with* Herbera, Dolors) K_0 of a semilocal ring. (English summary) **2000m:16014**
Hao, Zhi Feng Computation of $K_0(\left(\begin{smallmatrix} R & M \\ N & S \end{smallmatrix}\right)_{(\beta,\varphi)})$. (English summary)
Herbera, Dolors *see* **Facchini, Alberto, 2000m:16014**
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Klimek, J. (*with* Kraśkiewicz, W.; Weyman, Jerzy) The Grothendieck group of G-equivariant modules over coordinate rings of G-orbits. **2000h:16015**
Kraśkiewicz, W. *see* **Klimek, J. et al., 2000h:16015**
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Burgess, W. D. (*with* Saorín Castaño, M.) Homological aspects of semigroup gradings on rings and algebras. (English summary) **2000i:16089**
Castaño Iglesias, F. (*with* Gómez Torrecillas, José; Năstăsescu, Constantin) Frobenius functors: applications. (English summary) **2000f:18010**
Chen, Huan Yin Related comparability over exchange rings. (English summary) **2000g:16017**
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Emmanouil, Ioannis On a class of groups satisfying Bass' conjecture. (English summary) **2000a:19001**
Fottner, Hubert Defect theory for prime ideals and Dress's induction theorem. (English summary) **2000j:20020**
Fu, Shitai Higher algebraic K-theory of smash products. (English summary) **2000a:16055**
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Guralnick, Robert M. (*with* Pappacena, Christopher J.) Torsion in genus class groups. (English summary) **2000m:16022**
Hao, Zhi Feng (*with* Shum, Kar Ping) The Grothendieck groups of rings of Morita contexts. (English summary) **2000m:19002**
Krstić, Sava (*with* McCool, James) Presenting $\mathrm{GL}_n(k\langle T\rangle)$. (English summary) **2000f:19001**
Kuku, Aderemi O. Ranks of K_n and G_n of orders and group rings of finite groups over integers in number fields. (English summary) **2000d:19001**
McCool, James *see* **Krstić, Sava, 2000f:19001**
Năstăsescu, Constantin *see* **Castaño Iglesias, F. et al., 2000f:18010**
Østvær, Paul Arne Calculation of two-primary algebraic K-theory of some group rings. (English summary) **2000d:19002**
Pappacena, Christopher J. *see* **Guralnick, Robert M., 2000m:16022**
Saorín Castaño, M. *see* **Burgess, W. D., 2000i:16089**
Shum, Kar Ping *see* **Hao, Zhi Feng, 2000m:19002**

16E30 Homological functors on modules (Tor, Ext, etc.)

Ansari, Muhammad Rashid Kamal D^n-torsion and D^n-cotorsion modules. (English summary) **2000a:16013**
Brenner, Sheila (*with* Butler, Michael C. R.) Wild subquivers of the Auslander-Reiten quiver of a tame algebra. (English summary) **2000d:16013**
Brown, Peter The Ext-algebra of a representation-finite biserial algebra. (English summary) **2000j:16014**
Bruns, Winfried (*with* Gubeladze, Joseph) Examples of infinitely generated Koszul algebras. **2000e:16010**
Butler, Michael C. R. *see* **Brenner, Sheila, 2000d:16013**
Gubeladze, Joseph *see* **Bruns, Winfried, 2000e:16010**
Yekutieli, Amnon (*with* Zhang, James J.) Rings with Auslander dualizing complexes. (English summary) **2000f:16012**
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Deng, Pei Min Cotilting modules over coherent rings. (English and Chinese summaries) **2000a:16005**
Huang, Zhaoyong Extension closure of k-torsionfree modules. (English summary) **2000a:16009**
Lenzing, Helmut *see* **Barot, Michael, 2000j:16021**
López Ramos, J. A. *see* **Asensio, M. J. et al., 2000k:16045**
Roggenkamp, Klaus W. (*with* Rump, Wolfgang) Orders in non-semisimple algebras. (English summary) **2000h:16024**
Rump, Wolfgang *see* **Roggenkamp, Klaus W., 2000h:16024**
Torrecillas Jover, Blas *see* **Asensio, M. J. et al., 2000k:16045**

16E40 (Co)homology of rings and algebras (e.g. Hochschild, cyclic, dihedral, etc.)

Bardzell, Michael J. (*with* Marcos, Eduardo do Nascimento) Induced boundary maps for the cohomology of monomial and Auslander algebras. (English summary) **2000e:16011**
(Barr, Michael) *see* **Gerstenhaber, Murray, 2000k:16008**
Bloore, F. J. (*with* Roberts, Graham) The structure of $\mathcal{F}$-tensorial cochains of differential operators. (English summary) **2000e:16012**
Butler, Michael C. R. (*with* King, Alastair) Minimal resolutions of algebras. (English summary) **2000f:16013**
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Đỗ Ngọc Diệp (*with* Nguyen Van Thu) Homotopy invariance of entire current cyclic homology. (English summary) **2000f:16014**
Gerstenhaber, Murray Developments from Barr's thesis. (English summary) **2000k:16008**
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Green, Edward L.[1] (*with* Solberg, Øyvind) Basic Hopf algebras and quantum groups. (English summary) **2000h:16049**
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— The Ziegler spectrum of a tame hereditary algebra. **2000a:16027**
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16G30 Representations of orders, lattices, algebras over commutative rings [see also 16H05]

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Asashiba, Hideto Derived equivalence and stable equivalence of repetitions of algebras of finite global dimension. (English summary) **2000g:16024**
Guralnick, Robert M. (*with* Pappacena, Christopher J.) Torsion in genus class groups. (English summary) **2000m:16022**
Haefner, Jeremy (*with* Holcomb, Trae) The Picard group of a structural matrix algebra. (English summary) **2000j:16024**
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Huang, Zhaoyong On a generalization of the Auslander-Bridger transpose. (English summary) **2000m:16023**
König, Steffen (*with* Xi, Changchang) On the number of cells of a cellular algebra. **2000j:16025**
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Martin, Paul Purdon (*with* Woodcock, David) On the structure of the blob algebra. **2000k:16015**
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— (*with* Rump, Wolfgang) Orders in non-semisimple algebras. (English summary) **2000h:16024**
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Simson, Daniel Representation types, Tits reduced quadratic forms and orbit problems for lattices over orders. (English summary) **2000a:16025**
— Tame three-partite subamalgams of tiled orders of polynomial growth. (English summary) **2000i:16029**
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Haefner, Jeremy (*with* Janusz, Gerald) Hereditary crossed products. (English summary) **2000j:16045**
Iyama, Osamu Some categories of lattices associated to a central idempotent. **2000d:16011**
Jagadeeshan, Shashidhar (*with* Kleiner, Mark) Projectively stable Artin algebras: representation theory and quivers with relations. (English summary) **2000f:16019**
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16G50 Cohen-Macaulay modules

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16G60 Representation type (finite, tame, wild, etc.)

Barot, Michael (*with* de la Peña, José Antonio) Algebras whose Euler form is non-negative. **2000b:16030**
— Representation-finite derived tubular algebras. (English summary) **2000k:16016**
Guo, Xing Ming *see* **Huang, Dong-ping, 2000f:16022**
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— On the Krull-Gabriel dimension of an algebra. **2000m:16024**
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Angeleri Hügel, Lidia (*with* Smalø, Sverre O.) Real representations of quivers. (English summary) **2000k:16012**
Assem, Ibrahim (*with* Happel, Dieter; Trepode, Sonia) Tilting up iterated tilted algebras. (English summary) **2000k:16017**

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16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers

Angeleri Hügel, Lidia (*with* Valenta, Helmut) A duality result for almost split sequences. (English summary) **2000h:16025**
Assem, Ibrahim (*with* Happel, Dieter; Trepode, Sonia) Tilting up iterated tilted algebras. (English summary) **2000k:16017**
Coelho, Flávio Ulhoa Directing components for quasitilted algebras. (English summary) **2000i:16031**
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Kasjan, Stanisław Auslander-Reiten sequences under base field extension. (English summary) **2000m:16025**
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Lanzilotta, Marcelo Quasitilted Auslander algebras. (Spanish. English and Spanish summaries) **2000h:16026**
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Yao, Hai Lou On the Auslander-Reiten quiver with oriented cycles of representation-finite algebras. (English summary) **2000i:16032**
— Infinite connected components of an Auslander-Reiten quiver in which each DTr-orbit contains only finitely many points. **2000h:16027**

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Bleher, Frauke M. Special biserial algebras and their automorphisms. (English summary) **2000a:16062**
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Brenner, Sheila (*with* Butler, Michael C. R.) Wild subquivers of the Auslander-Reiten quiver of a tame algebra. (English summary) **2000d:16013**
Brown, Peter The Ext-algebra of a representation-finite biserial algebra. (English summary) **2000j:16014**
Butler, Michael C. R. (*with* King, Alastair) Minimal resolutions of algebras. (English summary) **2000f:16013**
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Donkin, Stephen On the existence of Auslander-Reiten sequences of group representations. I. (English summary) **2000g:20081**
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Kasjan, Stanisław Simply connected right multipeak algebras and the separation property. (English summary) **2000i:16020**
Kerner, Otto Minimal approximations, orbital elementary modules, and orbit algebras of regular modules. **2000e:16018**
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Lenzing, Helmut (*with* Reiten, Idun) Additive functions for quivers with relations. (English summary) **2000m:16021**
— (*with* de la Peña, José Antonio) Concealed-canonical algebras and separating tubular families. **2000c:16018**
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Madsen, Dag Almost split sequences for commutative Artinian rings. **2000g:16021**
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Martínez-Villa, Roberto Graded, selfinjective, and Koszul algebras. (English summary) **2000e:16038**
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Reiten, Idun Homological properties of almost split sequences. **2000a:16012**
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— *see also* **Skowroński, Andrzej, 2000i:16021**

16G99 None of the above, but in this section

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Xi, Changchang Twisted doubles of algebras. I. Deformations of algebras and the Jones index. (English summary) **2000d:16020**

16H05 Orders and arithmetic, separable algebras, Azumaya algebras [see also 11R52, 11R54, 11S45]

Choi, Eunmi (*with* Lee, Heisook) Central separable algebras over regular domain. (English summary) **2000h:16028**
Dai, T.-Y. Triangular type ordered subalgebras in a column model. **2000h:16029**
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Marubayashi, H. (*with* Ueda, Akira[1]) Prime and primary ideals in a Prüfer order in a simple Artinian ring with finite dimension over its center. (English summary) **2000g:16026**
Rump, Wolfgang Inertial algebras, inertial bimodules, and projective covers of algebras. (English summary) **2000h:16030**
Szeto, George The trace map and Azumaya Galois extension. (English summary) **2000a:16029**
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16Kxx Division rings and semisimple Artin rings [see also 12E15, 15A30]

16K20 Finite-dimensional {For crossed products, see 16S35.}

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16K50 Brauer groups [see also 12G05, 14F22]

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16Lxx Local rings and generalizations

16L30 Noncommutative local and semilocal rings, perfect rings

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16L60 Quasi-Frobenius rings [see also 16D50]

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16L99 None of the above, but in this section

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16Nxx Radicals and radical properties of rings

16N20 Jacobson radical, quasimultiplication

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16N40 Nil and nilpotent radicals, sets, ideals, rings

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16N60 Prime and semiprime rings [see also 16D60, 16U10]

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16N80 General radicals and rings {For radicals in module categories, see 16S90.}

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16Pxx Chain conditions, growth conditions, and other forms of finiteness

16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx.}

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16P20 Artinian rings and modules

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16P50 Localization and Noetherian rings [see also 16U20]

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16P60 Chain conditions on annihilators and summands: Goldie-type conditions [see also 16U20], Krull dimension

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16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence

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16P90 Growth rate, Gel′fand-Kirillov dimension

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Guo, Jin Yun (*with* Wu, Qiuxian) Loewy matrix, Koszul cone and applications. **2000k:16060**
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Xue, Wei Min² Quasi-Hamsher modules and quasi-max rings. **2000b:16009**
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16Rxx Rings with polynomial identity

16R10 T-ideals, identities, varieties of rings and algebras

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Bakhturin, Yu. A. (*with* Mishchenko, Sergei; Regev, Amitai) On the Lie and associative codimensions growth. **2000m:16034**
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16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings

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Asparouhov, Tihomir (*with* Drensky, Vesselin; Koev, Plamen; Tsiganchev, Dimitar) Generic 2×2 matrices in positive characteristic. (English summary) **2000m:16033**
Drensky, Vesselin *see* **Asparouhov, Tihomir et al., 2000m:16033**
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Pappacena, Christopher J. Torsion in class groups of modules over certain one-dimensional rings. (English summary) **2000j:16026**
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16R30 Trace rings and invariant theory

Berele, Allan (*with* Stembridge, John R.) Denominators for the Poincaré series of invariants of small matrices. (English summary) **2000m:16036**
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16S32 Rings of differential operators [see also 13N10, 32C38]

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16S34 Group rings [see also 20C05, 20C07], Laurent polynomial rings

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16S35 Twisted and skew group rings, crossed products

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16S90 Maximal ring of quotients, torsion theories, radicals on module categories [see also 13D30, 18E40] {For radicals of rings, see 16Nxx.}

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Spiegel, Eugene Essential ideals of incidence algebras. (English summary) **2000k:16037**
Zhao, Kai Ming Centers of down-up algebras. (English summary) **2000c:16041**

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Birkenmeier, Gary F. (*with* Kim, Jin-Yong; Park, Jae Keol) When is the CS condition hereditary? **2000e:16008**
Du, Xiankun The cardinal of the set of non-quasi-regular elements in a ring. (English summary) **2000c:16029**
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Kim, Jin-Yong *see* **Birkenmeier, Gary F. et al., 2000e:16008**
Liu, Zhong Kui (*with* Zhao, Zhi Xin) Almost excellent extensions and homological dimensions. (Chinese. English and Chinese summaries) **2000g:16014**
Martin, Paul Purdon (*with* Woodcock, David) On central idempotents in the partition algebra. **2000h:20025**
Muzychuk, Mikhail *see* **Arad, Zvi et al., 2000m:20005**
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Spiegel, Eugene Algebraic radicals and incidence algebras. (English summary) **2000j:16031**
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Zhao, Zhi Xin *see* **Liu, Zhong Kui, 2000g:16014**

16Uxx Conditions on elements

16U10 Integral domains

Items with secondary classifications in 16U10

Törner, Günter (*with* Zima, Jane) Some remarks on linear structures in right distributive domains. (English summary) **2000a:16045**
Zima, Jane *see* **Törner, Günter, 2000a:16045**

16U20 Ore rings, multiplicative sets, Ore localization

Ansari, Muhammad Rashid Kamal E. f. Modules. (English summary) **2000b:16063**
Ferrero, Miguel A. (*with* Sant'Ana, Alveri) Rings with comparability. (English summary) **2000e:16032**
Rauf Qureshi, M. A. Characterizations of Ore domains.
Sant'Ana, Alveri *see* **Ferrero, Miguel A., 2000e:16032**

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Simonetta, Patrick Équivalence élémentaire et décidabilité pour des structures du type groupe agissant sur un groupe abélien. (English summary) [Elementary equivalence and decidability for structures of a group acting on an abelian group] **2000e:03111**

16U60 Units, groups of units

Abrams, Gene (*with* Haefner, Jeremy; del Río, Angel) Approximating rings with local units via automorphisms. (English summary) **2000b:16064**
Akbari-Feyzaabaadi, S. (*with* Mahdavi-Hezavehi, M.) Normal subgroups of $\mathrm{GL}_n(D)$ are not finitely generated. (English summary) **2000j:16052**
Aleev, R. Zh. Central units of integral group rings of finite groups. (Russian)
Anderson, Frank W. (*with* D'Ambrosia, Barbara K.) Automorphisms of infinite-dimensional square-free algebras. (English summary) **2000a:16057**
D'Ambrosia, Barbara K. *see* **Anderson, Frank W., 2000a:16057**
Dixon, Martyn R. *see* **Shin, Hyunyong et al., 2000m:16046**
Dokuchaev, M. A. (*with* Juriaans, S. O.; Polcino Milies, César; Singer, M. L. Sobral) FC centres of units in algebras and orders. (French summary) **2000k:16038**
Haefner, Jeremy *see* **Abrams, Gene et al., 2000b:16064**
Juriaans, S. O. *see* **Dokuchaev, M. A. et al., 2000k:16038**
Krempa, Jan Rings with periodic groups of units. II. (English summary) **2000j:16053**
Kurdics, J. Properties of the unit group of a nonmodular group algebra. (English summary) **2000g:16036**
Li, Yuanlin Units of $\mathbf{Z}(G \times C_2)$. (English summary) **2000c:16042**
Lyou, Ikseung *see* **Shin, Hyunyong et al., 2000m:16046**
Mahdavi-Hezavehi, M. *see* **Akbari-Feyzaabaadi, S., 2000j:16052**
Mazur, Marcin The normalizer of a group in the unit group of its group ring. **2000a:16058**
Nicholson, W. Keith Strongly clean rings and Fitting's lemma. (English summary) **2000d:16046**
Parmenter, M. M. Central units in integral group rings. **2000d:16047**

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— (*with* Sehgal, Sudarshan K.) Central units of integral group rings. (English summary) **2000i:16067**
— *see also* **Dokuchaev, M. A. et al., 2000k:16038**
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Singer, M. L. Sobral *see* **Dokuchaev, M. A. et al., 2000k:16038**

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Alvis, Dean Units in Hecke algebras. (English summary) **2000f:20003**
Berry, Eliza *see* **Cohen, Jo-Ann, 2000m:16061**
Bhandari, Ashwani K. (*with* Passi, I. B. S.) Unit groups of group rings. **2000g:16033**
Bovdi, A. A. (*with* Kurdics, J.) Lie properties of the group algebra and the nilpotency class of the group of units. (English summary) **2000a:16051**
Chen, Huan Yin One-sided units in regular rings. (English and Chinese summaries) **2000e:16013**
Cohen, Jo-Ann (*with* Berry, Eliza) Linearly compact rings having a simple group of units. (English summary) **2000m:16061**
Gorodnik, Alexander Local near-rings with commutative groups of units. (English summary) **2000c:16061**
Hewett, Thomas Normalizers of finite subgroups of division algebras over local fields. **2000g:11111**
Krempa, Jan On a conjecture of B. Hartley and some related problems. (English and Russian summaries) **2000h:16040**
Kurdics, J. *see* **Bovdi, A. A., 2000a:16051**
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Popova, A. M. Groups of invertible elements of matrix rings. (Russian. Russian summary) **2000i:16062**
Sahai, Meena On the Jacobson radical and unit groups of group algebras. (English summary) **2000a:16052**

16U80 Generalizations of commutativity

Abujabal, Hamza A. S. (*with* Ashraf, Mohammad) On commutativity of rings involving certain polynomial constraints. (English summary) **2000b:16065**
— Commutativity of rings via Streb's classification. (English summary) **2000c:16043**
Abu-Khuzam, Hazar A note on rings with constraints involving potent and noncentral elements. (English summary)
Ashraf, Mohammad Some commutativity theorems for associative rings. (English summary) **2000c:16044**
— *see also* **Abujabal, Hamza A. S., 2000b:16065**
Bell, Howard E. (*with* Lucier, Jason) On additive maps and commutativity in rings. (English summary) **2000g:16037**
Bujade, V. G. *see* **Giri, R. D.**
Cohn, P. M. Reversible rings. **2000g:16038**
Giri, R. D. (*with* Bujade, V. G.) Commutative property in semi-prime rings. (English summary)
Guo, Chun Guang *see* **Yu, Xian Jun et al.** *and* **Zhu, Jie et al.**
Gupta, Ram Niwas Commutativity and anticommutativity of rings.
Komatsu, Hiroaki Commutativity of rings with powers commuting on subsets. **2000d:16048**
Kumari, Achlesh (*with* Nadeem-ur-Rehman) A remark on strongly co-commutativity preserving endomorphisms. (English summary)
— *see also* **Quadri, Murtaza A., 2000h:16046**
Lucier, Jason *see* **Bell, Howard E., 2000g:16037**
Nadeem-ur-Rehman *see* **Kumari, Achlesh**
Perić, Veselin Some commutativity results for s-unital rings with constraints on four elements subsets. (English summary) **2000k:16039**
Quadri, Murtaza A. (*with* Kumari, Achlesh) A note on co-commutativity preserving derivations. (English summary) **2000h:16046**
Tian, Shu Rong A commutativity condition for PI-rings with unit. (Chinese. English and Chinese summaries)
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Items with secondary classifications in 16U80

De Filippis, Vincenzo (*with* Di Vincenzo, Onofrio Mario) Prime rings with hypercommuting derivations on a Lie ideal. (English summary) **2000k:16044**
Di Vincenzo, Onofrio Mario *see* **De Filippis, Vincenzo, 2000k:16044**
Karamzadeh, O. A. S. (*with* Koochakpoor, A. A.) On $\aleph_0$-self-injectivity of strongly regular rings. **2000b:16018**
Khan, Moharram A. Strong commutativity preserving traces of bi-additive mappings. (English summary)
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16U99 None of the above, but in this section

Anderson, D. D. (*with* Camillo, Victor P.) Semigroups and rings whose zero products commute. (English summary) **2000a:16059**
Camillo, Victor P. *see* **Anderson, D. D., 2000a:16059**
Chandra Sekhara Rao, A. K. S. A note on SS-rings. (English summary)
Chen, Huan Yin Rings with many idempotents. (English summary) **2000k:16040**
De Las Peñas Cabrera, Inmaculada *see* **Fortes Escalona, Miguel Angel et al., 2000k:16041**
Fortes Escalona, Miguel Angel (*with* De Las Peñas Cabrera, Inmaculada; Sánchez Campos, Esperanza) Lifting idempotents in associative pairs. (English summary) **2000k:16041**
Gatalevich, A. Ī. On adequate and generally adequate duo rings and duo rings of elementary divisors. (Ukrainian. English summary)
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Petrich, Mario (*with* Silva, Pedro V.) On quasi directly infinite rings. (English summary) **2000i:16068**
Sánchez Campos, Esperanza *see* **Fortes Escalona, Miguel Angel et al., 2000k:16041**
Silva, Pedro V. *see* **Petrich, Mario, 2000i:16068**
Wang, Shu Chen *see* **Zhang, You**
Zhang, You (*with* Wang, Shu Chen) Two commutativity theorems for rings. (Chinese. English and Chinese summaries)

Items with secondary classifications in 16U99

Bell, Howard E. (*with* Klein, Abraham A.) Noncommutativity and noncentral zero divisors. (English summary) **2000b:16040**
Klein, Abraham A. *see* **Bell, Howard E., 2000b:16040**

16Wxx Rings and algebras with additional structure

16W10 Rings with involution; Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

Blau, Philip S. Lie isomorphisms of non-GPI rings with involution. **2000d:16049**
— *see also* **Swain, Gordon A., 2000g:16039**
Booth, G. L. (*with* Groenewald, Nico J.) Radicals of involution rings. (English summary) **2000a:16061**
Brešar, Matej (*with* Šemrl, Peter) Spectral characterization of idempotents and invertibility preserving linear maps. **2000d:16050**
Cabrera García, Miguel (*with* Mohammed, Amir A.) A representation theorem for algebras with commuting involutions. (English summary) **2000j:16055**
Casciotti, Leonard Relation of the prime radical and the radical of a subring generated by the symmetric elements. (English summary) **2000k:16042**
Groenewald, Nico J. *see* **Booth, G. L., 2000a:16061**
Lee, Tsiu-Kwen (*with* Pan, Ching-Yueh) Projections and power reduction property for generalized identities of symmetric elements. (English summary) **2000d:16051**
Mohammed, Amir A. *see* **Cabrera García, Miguel, 2000j:16055**
Pan, Ching-Yueh *see* **Lee, Tsiu-Kwen, 2000d:16051**
Šemrl, Peter *see* **Brešar, Matej, 2000d:16050**
Swain, Gordon A. (*with* Blau, Philip S.) Lie derivations in prime rings with involution. (English summary) **2000g:16039**

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Ara, Pere Morita equivalence for rings with involution. (English summary) **2000k:16003**
Bovdi, A. A. (*with* Kurdics, J.) Lie properties of the group algebra and the nilpotency class of the group of units. (English summary) **2000a:16051**
Chacron, M. (*with* Tignol, Jean-Pierre; Wadsworth, A. R.) Tractable fields. (English summary) **2000e:16020**
Chebotar, M. A. On Lie isomorphisms in prime rings with involution. (English summary) **2000c:16028**
D'Amour, Alain (*with* Racine, Michel) $*$-polynomial identities of matrices with the transpose involution: the low degrees. **2000c:16033**
Farkas, Daniel R. Poisson polynomial identities. II. (English summary) **2000d:16034**
Gouda, Y. Gh. The relative dihedral homology of involutive algebras. (English summary) **2000j:16015**
Idris, Ismail M. Rings with involution and orderings. (English summary) **2000j:16068**
Knus, Max-Albert (*with* Merkur'ev, A. S.; Rost, Markus; Tignol, Jean-Pierre) ★ The book of involutions. (English summary) **2000a:16031**
Kurdics, J. *see* **Bovdi, A. A., 2000a:16051**
Merkur'ev, A. S. *see* **Knus, Max-Albert et al., 2000a:16031**
Musson, Ian M. Some Lie superalgebras associated to the Weyl algebras. (English summary) **2000a:17013**
Racine, Michel *see* **D'Amour, Alain, 2000c:16033**
Rost, Markus *see* **Knus, Max-Albert et al., 2000a:16031**
Tignol, Jean-Pierre *see* **Knus, Max-Albert et al., 2000a:16031** *and* **Chacron, M. et al., 2000e:16020**
(Tits, Jacques) *see* **Knus, Max-Albert et al., 2000a:16031**
Wadsworth, A. R. *see* **Chacron, M. et al., 2000e:16020**

16W20 Automorphisms and endomorphisms

Beĭdar, K. I. (*with* Mikhalev, A. V.) Anti-isomorphisms, induced by Morita anti-equivalences, of endomorphism rings of modules that are close to free. (Russian. Russian summary) **2000d:16052**
Bleher, Frauke M. Special biserial algebras and their automorphisms. (English summary) **2000a:16062**
— Operation of automorphisms on 1-tubes. (English summary) **2000i:16069**
Cho, Yong Uk The relation between AGE and LSD-generated rings. (English summary) **2000j:16056**

Friger, Michael Analogue of G. Higman's theorem for commutative torsion-free rings. (English summary) **2000d:16053**
Guil-Asensio, Francisco (*with* Saorín Castaño, M.) The group of outer automorphisms and the Picard group of an algebra. (English summary) **2000i:16070**
Khan, Moharram A. Strong commutativity preserving traces of bi-additive mappings. (English summary)
Mikhalev, A. V. *see* **Beĭdar, K. I., 2000d:16052**
Saorín Castaño, M. *see* **Guil-Asensio, Francisco, 2000i:16070**
Szeto, George On Azumaya Galois extensions and skew group rings. (English summary) **2000a:16063**
Vela, Montse Graded algebra automorphisms. (English summary) **2000c:16045**

Items with secondary classifications in 16W20

Abrams, Gene (*with* Haefner, Jeremy; del Río, Angel) Approximating rings with local units via automorphisms. (English summary) **2000b:16064**
Anderson, Frank W. (*with* D'Ambrosia, Barbara K.) Automorphisms of infinite-dimensional square-free algebras. (English summary) **2000a:16057**
Artemovich, O. D. Differentially trivial and rigid rings of finite rank. (English summary) **2000d:16055**
Bell, Howard E. (*with* Lucier, Jason) On additive maps and commutativity in rings. (English summary) **2000g:16037**
Berger, Roland Confluence and quantum Yang-Baxter equation. (English summary) **2000k:16030**
Brešar, Matej (*with* Martindale, W. S., 3rd; Miers, C. Robert) Dependent automorphisms in prime rings. (English summary) **2000a:16036**
D'Ambrosia, Barbara K. *see* **Anderson, Frank W., 2000a:16057**
Evdokimov, Sergei (*with* Ponomarenko, I. N.) On primitive cellular algebras. (Russian. English and Russian summaries) **2000i:16060**
Fuchs, P. R. (*with* Maxson, C. J.) When do maximal submodules force linearity? (English summary) **2000k:16001**
Haefner, Jeremy (*with* Holcomb, Trae) The Picard group of a structural matrix algebra. (English summary) **2000j:16024**
— *see also* **Abrams, Gene et al., 2000b:16064**
Holcomb, Trae *see* **Haefner, Jeremy, 2000j:16024**
Jiang, Xiao Long (*with* Szeto, George) Notes on Galois extensions with inner Galois groups. (English summary) **2000f:16031**
Kumari, Achlesh (*with* Nadeem-ur-Rehman) A remark on strongly co-commutativity preserving endomorphisms. (English summary)
Lucier, Jason *see* **Bell, Howard E., 2000g:16037**
Martindale, W. S., 3rd *see* **Brešar, Matej et al., 2000a:16036**
Maxson, C. J. *see* **Fuchs, P. R., 2000k:16001**
Miers, C. Robert *see* **Brešar, Matej et al., 2000a:16036**
Nadeem-ur-Rehman *see* **Kumari, Achlesh**
Ponomarenko, I. N. *see* **Evdokimov, Sergei, 2000i:16060**
Putcha, Mohan S. Invariant algebra and cuspidal representations of finite monoids. (English summary) **2000c:20092**
del Río, Angel *see* **Abrams, Gene et al., 2000b:16064**
Szeto, George *see* **Jiang, Xiao Long, 2000f:16031**
Watanabe, Yutaka Isometries of cubic forms on algebras. (English summary) **2000f:16041**

16W22 Actions of groups and semigroups; invariant theory

Boulagouaz, M'hammed An introduction to the Galois theory for graded fields. (English summary) **2000k:16043**
Chiang, Li (*with* Chu, Huah; Kang, Ming-chang) Generation of invariants. (English summary) **2000j:16057**
Chu, Huah *see* **Chiang, Li et al., 2000j:16057**
Han, Juncheol Group actions in a unit-regular ring. (English summary) **2000d:16054**
Kang, Ming-chang *see* **Chiang, Li et al., 2000j:16057**
Szeto, George On a class of Azumaya algebras. (English summary) **2000j:16058**
Watanabe, Yutaka Isometries of cubic forms on algebras. (English summary) **2000f:16041**

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Guil-Asensio, Francisco (*with* Saorín Castaño, M.) The group of outer automorphisms and the Picard group of an algebra. (English summary) **2000i:16070**
Saorín Castaño, M. *see* **Guil-Asensio, Francisco, 2000i:16070**

16W25 Derivations, actions of Lie algebras

Adeniran, John Olusola A note on right central algebra. (English summary) (*see* **2000m:00048**)
Artemovich, O. D. Differentially trivial and rigid rings of finite rank. (English summary) **2000d:16055**
— Differentially trivial left Noetherian rings. (English summary) **2000i:16071**
Ashraf, Mohammad (*with* Nadeem-ur-Rehman) On symmetric (σ, σ)-biderivations. (English summary) **2000i:16072**
Bergen, Jeffrey (*with* Grzeszczuk, Piotr) Skew derivations with central invariants. (English summary) **2000h:16047**
Brešar, Matej (*with* Chebotar, M. A.; Šemrl, Peter) On derivations of prime rings. **2000d:16056**
Çallıalp, F. *see* **Khadzhiev, Dzhavvat, 2000d:16057**
Casas Miras, José Manuel *see* **Vieites Rodríguez, A. M., 2000i:16075**
Chang, Chi-Ming Derivations on prime rings with involution. (English summary)
Chebotar, M. A. *see* **Brešar, Matej et al., 2000d:16056**
Creedon, T. Derivations and prime ideals. (English summary)
De Filippis, Vincenzo (*with* Di Vincenzo, Onofrio Mario) Derivations on multilinear polynomials in semiprime rings. (English summary) **2000j:16059**
— (*with* Di Vincenzo, Onofrio Mario) Prime rings with hypercommuting derivations on a Lie ideal. (English summary) **2000k:16044**
Di Vincenzo, Onofrio Mario *see* **De Filippis, Vincenzo, 2000j:16059** *and* **2000k:16044**
Grzeszczuk, Piotr *see* **Bergen, Jeffrey, 2000h:16047**
Khadzhiev, Dzhavvat (*with* Çallıalp, F.) On the differential prime radical of a differential ring. (English summary) **2000d:16057**
Lee, Tsiu-Kwen Derivations with Engel conditions on polynomials. (English summary) **2000b:16066**
— (*with* Lee, Tsong-Cherng) Derivations with algebraic values of bounded degree. (English summary) **2000a:16064**
— Generalized derivations of left faithful rings. (English summary) **2000d:16058**
Lee, Tsong-Cherng *see* **Lee, Tsiu-Kwen, 2000a:16064**
Nadeem-ur-Rehman *see* **Ashraf, Mohammad, 2000i:16072**
Nakajima, Atsushi On categorical properties of generalized derivations. (English summary) **2000i:16073**
Niu, Feng Wen Linear combinations of derivations on prime rings. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Shu-hua**
Šemrl, Peter *see* **Brešar, Matej et al., 2000d:16056**
Shiue, Wen-Kwei Note on derivations with Engel condition on Lie ideals. (English summary) **2000i:16074**
Vieites Rodríguez, A. M. (*with* Casas Miras, José Manuel) Derivations of crossed modules. **2000i:16075**
Vukman, Joso Jordan left derivations on semiprime rings. **2000a:16065**
Wei, Feng *see* **Zhang, Shu-hua**
Zhang, Shu-hua (*with* Wei, Feng) Derivations cocentralizing some special multilinear polynomials in semiprime rings with involutions. (English and Chinese summaries)
— (*with* Wei, Feng) A note on derivations in semiprime rings. (English summary)
— (*with* Niu, Feng Wen) Derivations cocentralizing Lie ideal in semiprime rings. (English and Chinese summaries)

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Bell, Howard E. (*with* Lucier, Jason) On additive maps and commutativity in rings. (English summary) **2000g:16037**
Belokurova, E. V. Characteristic classes of projective modules over complex semisimple algebras. (Russian) **2000m:17023**
Blau, Philip S. *see* **Swain, Gordon A., 2000g:16039**
Chang, Chi-Ming (*with* Lee, Tsiu-Kwen) Derivations and central linear generalized polynomials in prime rings. (English summary) **2000a:16049**
Deng, Ai Ping Ideals and derivations in prime near-rings. (Chinese. English and Chinese summaries) **2000j:16070**
Gaur, A. K. (*with* Nandakumar, N. R.) Derivation pairs of operators on algebras of analytic functions. **2000b:46089**
Hongan, Motoshi (*with* Komatsu, Hiroaki) On the module of differentials of a noncommutative algebra and symmetric biderivations of a semiprime algebra. **2000k:16026**
Khan, Moharram A. Strong commutativity preserving traces of bi-additive mappings. (English summary)
Komatsu, Hiroaki *see* **Hongan, Motoshi, 2000k:16026**
Kumari, Achlesh *see* **Quadri, Murtaza A., 2000h:16046**
Lee, Tsiu-Kwen *see* **Chang, Chi-Ming, 2000a:16049**
Lucier, Jason *see* **Bell, Howard E., 2000g:16037**
Nandakumar, N. R. *see* **Gaur, A. K., 2000b:46089**
Quadri, Murtaza A. (*with* Kumari, Achlesh) A note on co-commutativity preserving derivations. (English summary) **2000h:16046**
Swain, Gordon A. (*with* Blau, Philip S.) Lie derivations in prime rings with involution. (English summary) **2000g:16039**
Wei, Zong Xuan Derivations of order 2 and commutativity of near-rings. (Chinese. English and Chinese summaries)

16W30 Coalgebras, bialgebras, Hopf algebras [see also 16S40, 57T05]; rings, modules, etc. on which these act

Albuquerque, Helena (*with* Majid, Shahn) Quasialgebra structure of the octonions. (English summary) **2000h:16048**
Ameur, Mustapha (*with* Benayadi, Saïd; Bennis, Chakib; Roux, André) Bicommutativity for a class of graded connected Hopf algebras. (English and French summaries) **2000a:16066**
Andruskiewitsch, Nicolás (*with* Natale, Sonia) Examples of self-dual Hopf algebras. (English summary) **2000a:16067**
Asensio, M. J. (*with* López Ramos, J. A.; Torrecillas Jover, Blas) Gorenstein coalgebras. (English summary) **2000k:16045**
Bar-Natan, Dror On associators and the Grothendieck-Teichmuller group. I. (English summary) **2000b:16067**
Beattie, Margaret (*with* Dăscălescu, S.; Grünenfelder, L.) On the number of types of finite-dimensional Hopf algebras. (English summary) **2000a:16068**
— An isomorphism theorem for Ore extension Hopf algebras. (English summary) **2000j:16060**
— (*with* Dăscălescu, S.; Grünenfelder, L.) On pointed Hopf algebras of dimension p^n. (English summary) **2000c:16046**
Bei, Shukun *see* **Li, Li-bin et al., 2000c:16053**
Bell, Allen D. Comodule algebras and Galois extensions relative to polynomial algebras, free algebras, and enveloping algebras. (English summary) **2000m:16047**
Benayadi, Saïd *see* **Ameur, Mustapha et al., 2000a:16066**
Bennis, Chakib *see* **Ameur, Mustapha et al., 2000a:16066**
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16W55 "Super" (or "skew") structure [see also 17A70, 17Bxx, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66.}

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16W60 Valuations, completions, formal power series and related constructions [see also 13Jxx]

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16W70 Filtered rings; filtrational and graded techniques

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16W80 Topological and ordered rings and modules [see also 06F25, 13Jxx]

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16W99 None of the above, but in this section

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16Yxx Generalizations {For nonassociative rings, see 17–XX.}

16Y30 Near-rings [see also 12K05]

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Cannon, G. Alan (*with* Kabza, Lucyna) Simplicity of the centralizer near-ring determined by End G. (English summary) **2000a:16087**
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Fuchs, P. R. (*with* Pilz, Günter F.) A new density theorem for primitive near-rings. (English summary) **2000h:16057**
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— Quotient nearrings of semilinear nearrings. **2000d:16073**
— Homomorphisms of nearrings of continuous functions from topological spaces into the asymmetric nearring. (English summary) **2000h:16060**
Mason, Gordon Kernels of f-covered groups. (English summary) **2000h:16061**
— A note on strong forms of regularity for nearrings. (English summary) **2000a:16088**
— Polarities for nearrings. (English summary) **2000a:16089**
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— (*with* Meyer, J. H.) Forcing linearity numbers. (English summary) **2000j:16073**
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Oswald, Alan Nearly nilpotent near-rings. **2000i:16096**
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Peterson, Gary Lee Blocks in near-rings. **2000k:16068**
— Split metacyclic p-groups that are A-E groups. (English summary) **2000j:16074**
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Veldsman, Stefan On the radical theory of near-rings. (*see* **2000g:16001**)

van der Walt, Andries P. J. Near-linear transformations of near-vector spaces. **2000m:16063**
Wei, Zong Xuan Derivations of order 2 and commutativity of near-rings. (Chinese. English and Chinese summaries)
Wiegandt, Richard *see* **Mlitz, R., 2000b:16082**
Yao, Zhi Ping Near-ideals and super near-ideals of rings. (Chinese. English and Chinese summaries)
Yon, Yong Ho *see* **Jun, Young Bae et al.**

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(Betsch, Gerhard) *see* **Near-rings and near-fields, 2000g:16001**
Fong, Yuen *see* **Beĭdar, K. I. et al., 2000f:16039**
Ke, W. F. *see* **Beĭdar, K. I. et al., 2000f:16039**
(Pilz, Günter F.) *see* **Near-rings and near-fields, 2000g:16001**
(Wefelscheid, Heinrich) *see* **Near-rings and near-fields, 2000g:16001**
Wu, W.-R. *see* **Beĭdar, K. I. et al., 2000f:16039**

Items listed otherwise than by author

Conference:
Near-rings and Near-fields ★ Near-rings and near-fields. **2000g:16001**
Near-rings and near-fields ★ Near-rings and near-fields. **2000g:16001**
Oberwolfach ★ Near-rings and near-fields. **2000g:16001**

16Y60 Semirings [see also 12K10]

Ghosh, Shamik The Jacobson relational radical on hemirings with involution. (English summary)
— *see also* **Sen, Mridul Kanti et al., 2000j:16076**
Golan, Jonathan S. Some remarks concerning nuclei on semiring. (English, Russian and Moldavian summaries) **2000k:16070**
Guo, Yu Qi *see* **Pastijn, F., 2000i:16097**
Hebisch, U. (*with* Weinert, H. J.) Radical theory for semirings. (English summary) **2000e:16041**
— (*with* Weinert, H. J.) ★ Semirings: algebraic theory and applications in computer science. **2000g:16053**
Jun, Young Bae *see* **Neggers, J. et al., 2000a:16090**
Karner, Georg (*with* Kuich, Werner) On certain closure operators defined by families of semiring morphisms. (English summary) **2000m:16064**
Katsov, Yefim Tensor products and injective envelopes of semimodules over additively regular semirings. (English summary) **2000b:16084**
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Minoux, M. A generalization of the all minors matrix tree theorem to semirings. (English summary) **2000b:16085**
Morak, Bettina On the radical theory for semirings. (English summary) **2000h:16063**
Mukhopadhyay, Partha S. *see* **Sen, Mridul Kanti et al., 2000j:16076**
Neggers, J. (*with* Jun, Young Bae; Kim, Hee Sik) On L-fuzzy ideals in semirings. II. (English summary) **2000a:16090**
Pastijn, F. (*with* Guo, Yu Qi) The lattice of idempotent distributive semiring varieties. (English summary) **2000i:16097**
Sen, Mridul Kanti (*with* Ghosh, Shamik; Mukhopadhyay, Partha S.) Congruences on inversive semirings. (English summary) **2000j:16076**
Song, Ying Chun (*with* Wang, Fu Bin; Zhang, Xian^2) Linear operators that preserve r-potence of matrices over a class of semirings. (Chinese. English and Chinese summaries)
Vasantha Kandasamy, W. B. On fuzzy semirings.
Wang, Fu Bin *see* **Song, Ying Chun et al.**
Wang, Hua Xiong On characters of semirings. **2000e:16042**
Weinert, H. J. *see* **Hebisch, U., 2000e:16041** *and* **2000g:16053**
Zhang, Xian^2 *see* **Song, Ying Chun et al.**

Items with secondary classifications in 16Y60

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Butkovic, P. *see* **Gaubert, Stéphane, 2000j:15007**
Droste, Manfred (*with* Gastin, Paul) The Kleene-Schützenberger theorem for formal power series in partially commuting variables. (English summary) **2000g:68101**
Gastin, Paul *see* **Droste, Manfred, 2000g:68101**
Gaubert, Stéphane (*with* Butkovic, P.) Sign-nonsingular matrices and matrices with unbalanced determinant in symmetrised semirings. (English summary) **2000j:15007**
Kim, Eun Sup *see* **Kim, Hae Sik et al., 2000d:16072**
Kim, Hae Sik (*with* Kim, Eun Sup; Lee, Dong-Soo[1]; Park, Young Soo) Some structures of seminear-rings. (English summary) **2000d:16072**
Lee, Dong-Soo[1] *see* **Kim, Hae Sik et al., 2000d:16072**
Magill, K. D., Jr. Homomorphisms of nearrings of continuous functions from topological spaces into the asymmetric nearring. (English summary) **2000h:16060**
Park, Young Soo *see* **Kim, Hae Sik et al., 2000d:16072**

16Y99 None of the above, but in this section

Ameri, R. (*with* Zahedi, M. M.) Fuzzy direct sum and fuzzy (weakly) prime and primary subhypermodules. (English summary) **2000d:16074**
— *see also* **Zahedi, M. M., 2000i:16099**
Belluce, Lawrence Peter Artinian and Noetherian MV-algebras. (Spanish. English and Spanish summaries)
Chen, Wei Xin Quasi-P radicals of Γ-rings. (English summary) **2000a:16091**
— Radicals of Γ-rings determined by properties of elements. II. (Chinese. English and Chinese summaries)
— A further discussion of radicals of Γ-rings determined by properties of elements. (Chinese. English and Chinese summaries)
Darafsheh, M. R. (*with* Davvaz, B.) H_v-ring of fractions. (English summary) **2000j:16077**
Davvaz, B. *see* **Darafsheh, M. R., 2000j:16077**
Fan, Fu-sheng On the Γ-division rings. (English and Chinese summaries)
Gu, Wen Xiang *see* **Sun, Shao Quan**
Hasankhani, A. (*with* Zahedi, M. M.) F-hyperrings. (English summary) **2000b:16086**
Hassan, A. A. M. On fuzzy rings and fuzzy homomorphisms. (English summary) **2000c:16064**
Jun, Young Bae (*with* Kim, Hee Sik) Intuitionistic fuzzy ideals of inclines. (English summary)
Kim, Hee Sik *see* **Jun, Young Bae**
Kravchenko, Yu. V. On formations of polyadic multirings. (Russian. English and Russian summaries) **2000a:16092**
Mahmoud, Mashhour Ibrahim (H, Hyp(R))-hyperring. (English summary) **2000k:16071**
Meng, Guang Wu *see* **Zhang, Qing De**
Procesi Ciampi, Rita (*with* Rota, R.) On some classes of hyperstructures. (English summary) **2000i:16098**
Rota, R. *see* **Procesi Ciampi, Rita, 2000i:16098**
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Sun, Shao Quan (*with* Gu, Wen Xiang) Fuzzy algebras over interval-valued fuzzy fields. (Chinese. English and Chinese summaries)
Tan, Yi Jia Fuzzy prime ideals and fuzzy completely prime ideals in a fuzzy ring. (Chinese. English and Chinese summaries)
Wang, Ding Guo (*with* Yao, Zhongping) On essential supernilpotency of gamma rings. (English summary) **2000j:16078**
Xi, Lifeng *see* **Xi, Ougen, 2000b:16087**
Xi, Ougen (*with* Xi, Lifeng) Nil radicals in nil semisimple weaker Γ_N-rings. (English summary) **2000b:16087**
Yao, Zhongping *see* **Wang, Ding Guo, 2000j:16078**
Zahedi, M. M. (*with* Ameri, R.) On the prime, primary and maximal subhypermodules. (English summary) **2000i:16099**
— *see also* **Hasankhani, A., 2000b:16086** *and* **Ameri, R., 2000d:16074**
Zhang, Qing De (*with* Meng, Guang Wu) On the lattice of fuzzy ideals of a ring. (English summary)
Zhong, Yu Bin The existence of HX-rings. (Chinese. English and Chinese summaries)

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Avinash, K. (*with* Rvachev, Vladimir Logvinovich) Non-Archimedean algebra: applications to cosmology and gravitation. (English summary) **2000m:83124**
Davvaz, B. Rough sets in a fundamental ring. (English and Persian summaries) **2000e:20121**
Rvachev, Vladimir Logvinovich *see* **Avinash, K., 2000m:83124**
Vougiouklis, Thomas Enlarging H_v-structures. (English summary) **2000k:20079**
— On H_v-rings and H_v-representations. (English summary) **2000h:20127**

16Z05 Computational aspects of associative rings [see also 68W30]

Ivanyos, Gábor (*with* Rónyai, Lajos) Computations in associative and Lie algebras. **2000j:16079**
Rónyai, Lajos *see* **Ivanyos, Gábor, 2000j:16079**

Items with secondary classifications in 16Z05

Bueso, José Luis (*with* Castro-Jiménez, Francisco Jesús; Gómez Torrecillas, José; Lobillo, Francisco Javier) Test de primalité dans une extension de Ore itérée. (English and French summaries) [Primality test in iterated Ore extensions] **2000m:16039**
Castro-Jiménez, Francisco Jesús *see* **Bueso, José Luis et al., 2000m:16039**
Cojocaru, Svetlana (*with* Podoplelov, Alexander; Ufnarovskiĭ, V. A.) Non-commutative Gröbner bases and Anick's resolution. (English summary) **2000i:16090**
Gómez Torrecillas, José *see* **Bueso, José Luis et al., 2000m:16039**
Lobillo, Francisco Javier *see* **Bueso, José Luis et al., 2000m:16039**
Madlener, Klaus (*with* Reinert, Birgit) Gröbner bases in non-commutative reduction rings. (English summary) **2000i:16066**
Podoplelov, Alexander *see* **Cojocaru, Svetlana et al., 2000i:16090**
Reinert, Birgit *see* **Madlener, Klaus, 2000i:16066**
Ufnarovskiĭ, V. A. Introduction to noncommutative Gröbner bases theory. (English summary) **2000i:16051**
— *see also* **Cojocaru, Svetlana et al., 2000i:16090**

17–XX Nonassociative rings and algebras

17–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 17–01

Huang, Jing-Song ★ Lectures on representation theory. (English summary) **2000m:22002**
Meng, Dao Ji Complete Lie algebras. (English summary)
Ram, Arun Quantum groups: a survey of definitions, motivations, and results. **2000f:17022**
Xu, Xiaoping ★ Introduction to vertex operator superalgebras and their modules. (English summary) **2000h:17019**

17–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 17–02

Allison, Bruce N. Coordinatization of extended affine Lie algebras. (English summary) (*see* **2000k:00044**)
Anquela, José A. Changing the element at which primitivity happens. (English summary) (*see* **2000k:00044**)
Becerra Guerrero, Julio JB^*-triples and transitivity of the norm. (English summary) (*see* **2000k:00044**)
Benkart, Georgia Lie algebras graded by finite root systems from AD to BC. (English summary) (*see* **2000k:00044**)
(Borcherds, Richard Ewen) *see* **Goddard, Peter, 2000a:17028**
Carter, Roger W. Representations of simple Lie algebras: modern variations on a classical theme. **2000b:17014**
Etingof, Pavel I. (*with* Schiffmann, Olivier) ★ Lectures on quantum groups. **2000e:17016**
Goddard, Peter The work of Richard Ewen Borcherds. **2000a:17028**
Griess, Robert L., Jr. Automorphisms of lattice type vertex operator algebras and variations, a survey. (English summary) (*see* **2000k:17001**)
Jantzen, Jens Carsten Introduction to quantum groups. (English summary) **2000j:17021**
Kac, Victor G. Formal distribution algebras and conformal algebras. **2000f:17041**
Kikkawa, Michihiko Geometry of homogeneous left Lie loops and tangent Lie triple algebras. (English summary) **2000b:17046**
Littelmann, Peter Bases canoniques et applications. (French summary) [Canonical bases and applications] **2000d:17019**
Lusztig, George Canonical bases and Hall algebras. (English summary) **2000d:17020**
Matsuo, Atsushi (*with* Nagatomo, Kiyokazu) ★ Axioms for a vertex algebra and the locality of quantum fields. **2000k:17036**
Miyamoto, Masahiko Code vertex operator algebras and Clifford algebras. (Japanese) **2000g:17041**
Molev, A. I. On elementary representations of Yangians. (English summary) **2000c:17007**
Moody, Robert V. (*with* Pianzola, A.) Kac-Moody Lie algebras: a survey of their algebraic development over the first 30 years. (English and French summaries) **2000k:17033**
Nagatomo, Kiyokazu *see* **Matsuo, Atsushi, 2000k:17036**
Pianzola, A. *see* **Moody, Robert V., 2000k:17033**
Polcino Milies, César Alternative loop rings and related topics. **2000c:17051**
Schiffmann, Olivier *see* **Etingof, Pavel I., 2000e:17016**
Shalev, Aner (*with* Zel′manov, E. I.) Narrow algebras and groups. **2000i:17008**
Zel′manov, E. I. *see* **Shalev, Aner, 2000i:17008**

17–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 17–03

(Banachiewicz, Tadeusz) *see* **Bujakiewicz-Korońska, Renata, 2000k:01028**
Bujakiewicz-Korońska, Renata (*with* Koroński, Jan) The Krakowian calculus and other mathematical ideas of Tadeusz Banachiewicz. (Polish. English, German and Polish summaries) **2000k:01028**
Kikkawa, Michihiko Geometry of homogeneous left Lie loops and tangent Lie triple algebras. (English summary) **2000b:17046**
Koroński, Jan *see* **Bujakiewicz-Korońska, Renata, 2000k:01028**
Polcino Milies, César Alternative loop rings and related topics. **2000c:17051**

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Biography:
Banachiewicz, Tadeusz *see* **Bujakiewicz-Korońska, Renata, 2000k:01028**

17–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 17–04

de Graaf, W. A. Using Cartan subalgebras to calculate nilradicals and Levi subalgebras of Lie algebras. (English summary) **2000j:17001**

17–06 Proceedings, conferences, collections, etc.

(Jing, Naihuan) *see* **Recent developments in quantum affine algebras and related topics, 2000k:17001**
(Misra, Kailash C.) *see* **Recent developments in quantum affine algebras and related topics, 2000k:17001**

Items listed otherwise than by author

Conference:
Representations of Affine and Quantum Affine Algebras and their Applications ★ Recent developments in quantum affine algebras and related topics. **2000k:17001**
Contemporary Mathematics ★ Recent developments in quantum affine algebras and related topics. **2000k:17001**
Raleigh, NC ★ Recent developments in quantum affine algebras and related topics. **2000k:17001**
Recent developments in quantum affine algebras and related topics ★ Recent developments in quantum affine algebras and related topics. **2000k:17001**

Items with secondary classifications in 17–06

(Astashkevich, Alexander) *see* **Differential topology, infinite-dimensional Lie algebras, and applications, 2000g:00084**
(Bakhturin, Yu. A.) *see* **Algebra, 2000b:00020**
(Castellón Serrano, A.) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
Cherednik, Ivan (*with* Forrester, Peter J.; Uglov, Denis) ★ Quantum many-body problems and representation theory. **2000g:81002**
(Cuenca Mira, J. A.) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
(Feigin, B. L.) *see* **Topics in quantum groups and finite-type invariants, 2000j:00013**
(Fernández López, Antonio[1]) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
Forrester, Peter J. *see* **Cherednik, Ivan et al., 2000g:81002**
(Fuchs, Dmitry) *see* **Differential topology, infinite-dimensional Lie algebras, and applications, 2000g:00084**
(Golod, E. S.) *see* **Algebra, 2000b:00020**
(Heyer, Herbert) *see* **Analysis on infinite-dimensional Lie groups and algebras**
(Kostrikin, Alekseĭ Ivanovich) *see* **Algebra, 2000b:00020**
(Marion, Jean A.) *see* **Analysis on infinite-dimensional Lie groups and algebras**
(Martín González, C.) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
(Tabachnikov, Sergei) *see* **Differential topology, infinite-dimensional Lie algebras, and applications, 2000g:00084**
Uglov, Denis *see* **Cherednik, Ivan et al., 2000g:81002**
(Vassiliev, V. A.) *see* **Topics in quantum groups and finite-type invariants, 2000j:00013**

Items listed otherwise than by author

Algebra ★ Algebra. 11. **2000b:00020**
American Mathematical Society Translations, Series 2 ★ Topics in quantum groups and finite-type invariants. **2000j:00013**
— ★ Differential topology, infinite-dimensional Lie algebras, and applications. **2000g:00084**
Analysis on infinite-dimensional Lie groups and algebras ★ Analysis on infinite-dimensional Lie groups and algebras.
Birthday:
Fuchs, Dmitry ★ Differential topology, infinite-dimensional Lie algebras, and applications. **2000g:00084**
Colloquium:
Analysis on Infinite-Dimensional Lie Groups and Algebras ★ Analysis on infinite-dimensional Lie groups and algebras.
Conference:
Jordan Structures ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
Differential topology, infinite-dimensional Lie algebras, and applications ★ Differential topology, infinite-dimensional Lie algebras, and applications. **2000g:00084**
Festschrift:
Fuchs, Dmitry ★ Differential topology, infinite-dimensional Lie algebras, and applications. **2000g:00084**
Kostrikin, Alekseĭ Ivanovich ★ Algebra. 11. **2000b:00020**
Málaga ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
Marseille ★ Analysis on infinite-dimensional Lie groups and algebras.
Proceedings:
Conference on Jordan Structures ★ Proceedings of the International Conference on Jordan Structures. **2000k:00044**
Topics in quantum groups and finite-type invariants ★ Topics in quantum groups and finite-type invariants. **2000j:00013**

17–08 Computational methods

Appleby, Glenn D. An efficient algorithm to compute matrix decompositions for the adjoint action of nilpotent matrices. (Russian) **2000i:17001**
de Graaf, W. A. Using Cartan subalgebras to calculate nilradicals and Levi subalgebras of Lie algebras. (English summary) **2000j:17001**

Items with secondary classifications in 17–08

Ivanyos, Gábor (*with* Rónyai, Lajos) Computations in associative and Lie algebras. **2000j:16079**
Rónyai, Lajos *see* **Ivanyos, Gábor, 2000j:16079**

17Axx General nonassociative rings

17A01 General theory

Daboul, Jamil (*with* Delbourgo, Robert) Matrix representation of octonions and generalizations. (English summary) **2000g:17001**
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17Cxx Jordan algebras (algebras, triples and pairs)

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(Castellón Serrano, A.) *see* **Proceedings: Conference on Jordan Structures, 2000k:00044**
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17C05 Identities and free Jordan structures

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17C17 Radicals

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17C20 Simple, semisimple algebras

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17C27 Idempotents, Peirce decompositions

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17C30 Associated groups, automorphisms

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17C36 Associated manifolds

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17C37 Associated geometries

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17C40 Exceptional Jordan structures

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17C50 Jordan structures associated with other structures [see also 16W10]

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17C55 Finite-dimensional structures

Petersson, Holger P. Grids and the arithmetics of Jordan pairs. (English summary) **2000b:17043**

17C60 Division algebras

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17C65 Jordan structures on Banach spaces and algebras [see also 46H70, 46L70]

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17C90 Applications to physics

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17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

Juriaans, S. O. (*with* Peresi, Luiz Antonio) Polynomial identities of RA2 loop algebras. (English summary) **2000b:17044**
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Beĭdar, K. I. (*with* Wiegandt, Richard) Radical assignments and radical classes. (English, Russian and Moldavian summaries) **2000k:16027**
Bremner, Murray Quantum octonions. (English summary) **2000c:17016**
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17D10 Mal′cev (Mal′tsev) rings and algebras

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17D25 Lie-admissible algebras

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17D92 Genetic algebras

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18–XX Category theory; homological algebra {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology.}

18–01 Instructional exposition (textbooks, tutorial papers, etc.)

Pumplün, Dieter ★ Elemente der Kategorientheorie. (German. German summary) [Elements of category theory] **2000i:18001**

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18–02 Research exposition (monographs, survey articles)

Clark, David M. (*with* Davey, Brian A.) ★ Natural dualities for the working algebraist. (English summary) **2000d:18001**
Davey, Brian A. *see* **Clark, David M., 2000d:18001**

Items with secondary classifications in 18–02

Baues, Hans-Joachim ★ Combinatorial foundation of homology and homotopy. (English summary) **2000h:55001**
Gelfand, Sergei (*with* Manin, Yurīĭ Ivanovich) ★ Homological algebra. (English summary) **2000b:18016**
Manin, Yurīĭ Ivanovich *see* **Gelfand, Sergei, 2000b:18016**
May, J. P. ★ A concise course in algebraic topology. (English summary) **2000h:55002**
Taylor, Paul ★ Practical foundations of mathematics. (English summary) **2000h:03002**

18–03 Historical (must also be assigned at least one classification number from Section 01)

Weibel, Charles A. History of homological algebra. **2000m:18001**

Items with secondary classifications in 18–03

McCleary, John A history of spectral sequences: origins to 1953. **2000m:55003**
Szigeti, J. Research in algebra during the 50 years of the University in Miskolc. (English summary) **2000j:01118**

18–04 Explicit machine computation and programs (not the theory of computation or programming)

Alp, Murat Special cases of cat^1-groups. (English summary) **2000i:18002**

Items with secondary classifications in 18–04

Bobtcheva, Ivelina (*with* Quinn, Frank) Numerical presentations of tortile categories. (English summary) **2000e:18006**
Quinn, Frank *see* **Bobtcheva, Ivelina, 2000e:18006**

18–06 Proceedings, conferences, collections, etc.

(Barr, Michael) *see* **Festschrift: Lambek, Joachim, 2000h:18001** *and* **Special Issue: On the occasion of the 60th birthday of Professor Michael Barr**
(Lambek, Joachim) *see* **Festschrift: Lambek, Joachim, 2000h:18001**
(Lawvere, F. William) *see* **Special Issue: On the occasion of the 60th birthday of Professor Michael Barr**
(Scott, P. J.) *see* **Festschrift: Lambek, Joachim, 2000h:18001**
(Seely, R. A. G.) *see* **Festschrift: Lambek, Joachim, 2000h:18001** *and* **Special Issue: On the occasion of the 60th birthday of Professor Michael Barr**

Items listed otherwise than by author

Birthday:
Barr, Michael ★ Special volume on the occasion of the 60th birthday of Professor Michael Barr.
Lambek, Joachim ★ The Lambek Festschrift. **2000h:18001**
Conference:
Barrfest ★ Special volume on the occasion of the 60th birthday of Professor Michael Barr.
Festschrift:
Barr, Michael ★ Special volume on the occasion of the 60th birthday of Professor Michael Barr.
Lambek, Joachim ★ The Lambek Festschrift. **2000h:18001**
Montreal, QC ★ Special volume on the occasion of the 60th birthday of Professor Michael Barr.
Special Issue:
On the occasion of the 60th birthday of Professor Michael Barr ★ Special volume on the occasion of the 60th birthday of Professor Michael Barr.

Items with secondary classifications in 18–06

(Banaschewski, Bernhard) *see* **Symposium: Categorical Topology, 2000g:54006**
(Boardman, J. Michael) *see* **Homotopy invariant algebraic structures, 2000e:55002**
(Brümmer, Guillaume) *see* **Symposium: Categorical Topology, 2000g:54006**
(Ehrig, Hartmut) *see* **Categorical approaches to computing by graph transformation, 2000k:68006**
(Gilmour, C. R. A.) *see* **Symposium: Categorical Topology, 2000g:54006**
(Herrlich, Horst) *see* **Symposium: Categorical Topology, 2000g:54006**
(Meyer, Jean-Pierre) *see* **Homotopy invariant algebraic structures, 2000e:55002**
(Morava, Jack) *see* **Homotopy invariant algebraic structures, 2000e:55002**
(Schneider, Hans-Jürgen[1]) *see* **Categorical approaches to computing by graph transformation, 2000k:68006**
(Wilson, W. Stephen) *see* **Homotopy invariant algebraic structures, 2000e:55002**

Items listed otherwise than by author

Baltimore, MD ★ Homotopy invariant algebraic structures. **2000e:55002**
Birthday:
Boardman, J. Michael ★ Homotopy invariant algebraic structures. **2000e:55002**
Brümmer, Guillaume C. L. ★ Symposium on Categorical Topology. **2000g:54006**
Categorical approaches to computing by graph transformation ★ Categorical approaches to computing by graph transformation. **2000k:68006**
Conference:
Homotopy Invariant Algebraic Structures ★ Homotopy invariant algebraic structures. **2000e:55002**
Contemporary Mathematics ★ Homotopy invariant algebraic structures. **2000e:55002**
Festschrift:
Boardman, J. Michael ★ Homotopy invariant algebraic structures. **2000e:55002**
Brümmer, Guillaume C. L. ★ Symposium on Categorical Topology. **2000g:54006**
Homotopy invariant algebraic structures ★ Homotopy invariant algebraic structures. **2000e:55002**
Rondebosch ★ Symposium on Categorical Topology. **2000g:54006**
Session:
Homotopy Theory ★ Homotopy invariant algebraic structures. **2000e:55002**
Special Issue:
Categorical approaches to computing by graph transformation ★ Categorical approaches to computing by graph transformation. **2000k:68006**
Symposium:
Categorical Topology ★ Symposium on Categorical Topology. **2000g:54006**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Bednarczyk, Marek A. (*with* Borzyszkowski, Andrzej M.; Pawłowski, Wiesław) Generalized congruences—epimorphisms in $\mathcal{S}at$. (English summary) **2000h:18002**
Borzyszkowski, Andrzej M. *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Breitenecker, M. Categories in mathematical physics. (English, Russian and Ukrainian summaries) (*see* **2000c:00039**)
Pawłowski, Wiesław *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Šostak, Alexander P. Fuzzy categories related to algebra and topology. (English summary) (*see* **2000g:00057a**)

Items with secondary classifications in 18A05

Woiry, J. Structures de contact, extension du calcul des jets. I. (English and French summaries) [Contact structures, extension of jet theory. I] **2000h:58010**
– Structures de contact, extension du calcul des jets. II. (English and French summaries) [Contact structures, extension of jet theory. II] **2000h:58011**

18A10 Graphs, diagram schemes, precategories [See especially 20L05]

Items with secondary classifications in 18A10

Butler, Philip H. *see* **Joyce, William P., (2000c:81010)**
Joyce, William P. (*with* Butler, Philip H.) Category theory formulation of the Racah-Wigner calculus. (English summary) (*see* **2000c:81010**)

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Items with secondary classifications in 18A15

Hermida, Claudio Some properties of **Fib** as a fibred 2-category. (English summary) **2000c:18009**
Makkai, Michael Towards a categorical foundation of mathematics. **2000f:03015**
Marx, Maarten Relativized relation algebras. (English summary) **2000g:03140**
Pratt, Vaughan R. Chu spaces from the representational viewpoint. (English summary) **2000b:68142**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms

Herrlich, Horst (*with* Schröder, Lutz) Composing special epimorphisms and retractions. (French summary) **2000f:18001**
Liu, Xiao Ji The generalized Moore-Penrose inverse of a morphism. (Chinese. English and Chinese summaries)
Ospina, Margarita O-category structures generated by faithful functors and epi-objects. (Spanish. English and Spanish summaries) **2000g:18001**
Schröder, Lutz *see* **Herrlich, Horst, 2000f:18001**
Zhang, Wen Xiu *see* **Zheng, Ya Lin**

Zheng, Ya Lin (*with* Zhang, Wen Xiu) The relationship among the connectedness of abstract categories, special objects and special morphisms. (Chinese. English and Chinese summaries)

Items with secondary classifications in 18A20

Bednarczyk, Marek A. (*with* Borzyszkowski, Andrzej M.; Pawłowski, Wiesław) Generalized congruences—epimorphisms in $\mathcal{E}at$. (English summary) **2000h:18002**
Borzyszkowski, Andrzej M. *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Hager, Anthony W. (*with* Martinez, Jorge[2]) Singular Archimedean lattice-ordered groups. (English summary) **2000m:06023**
Janelidze, George (*with* Tholen, Walter) Extended Galois theory and dissonant morphisms. (English summary) **2000m:18006**
Martinez, Jorge[2] *see* **Hager, Anthony W., 2000m:06023**
Pawłowski, Wiesław *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Peška, Petr The Moore-Penrose inverse of partitioned morphism in additive category. (English summary) (*see* **2000e:00027**)
Tholen, Walter *see* **Janelidze, George, 2000m:18006**
Worrell, James Terminal sequences for accessible endofunctors. (English summary) **2000e:03178**

18A22 Special properties of functors (faithful, full, etc.)

Dalalyan, S. (*with* Petrosyan, Arshak) The slice classification of categories of coalgebras for comonads. (English summary) **2000e:18001**
Johnstone, Peter A note on discrete Conduché fibrations. (English summary) **2000c:18001**
Paré, Robert Contravariant functors on finite sets and Stirling numbers. (English summary) **2000k:18001**
Petrosyan, Arshak *see* **Dalalyan, S., 2000e:18001**
Šlapal, Josef A Galois correspondence between closure spaces and relational systems. (English summary) **2000e:18002**
Trnková, Věra Amazingly extensive use of Cook continuum. (English summary) **2000m:18002**

Items with secondary classifications in 18A22

Bouc, Serge Non-additive exact functors and tensor induction for Mackey functors. (English summary) **2000i:19002**
Jensen, Jens G. Exactness of a rank one quantum induction functor. (English summary) **2000d:17017**
Thomsen, Klaus The universal property of equivariant KK-theory. (English summary) **2000a:19008**

18A25 Functor categories, comma categories

Buchweitz, Ragnar-Olaf Finite representation type and periodic Hochschild (co-)homology. **2000b:18001**
Chen, Hui Xiang Double cross products and cocycle deformations. (Chinese. Chinese summary) **2000b:18002**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Cao, Yong Zhi *see* **Zhu, Ping**
Ogoma, Tetsushi (*with* Sasamura, Naoki) Fiber sum in the category of rings and its application to the tensor product of modules. **2000m:18003**
Sasamura, Naoki *see* **Ogoma, Tetsushi, 2000m:18003**
Zhu, Ping (*with* Cao, Yong Zhi) The properties of collective pullbacks. (Chinese. English and Chinese summaries)

Items with secondary classifications in 18A30

Bednarczyk, Marek A. (*with* Borzyszkowski, Andrzej M.; Pawłowski, Wiesław) Generalized congruences—epimorphisms in $\mathcal{E}at$. (English summary) **2000h:18002**
Boardman, J. Michael Conditionally convergent spectral sequences. (English summary) **2000m:55024**
Borzyszkowski, Andrzej M. *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Grandis, Marco (*with* Paré, Robert) Limits in double categories. (French summary) **2000i:18007**
Han, Yong-Hee *see* **Lee, Hong Jae et al., 2000g:55004**
Kim, Seong-Ju *see* **Lee, Hong Jae et al., 2000g:55004**
Lee, Dae-Woong *see* **Lee, Hong Jae et al., 2000g:55004**
Lee, Hong Jae (*with* Kim, Seong-Ju; Han, Yong-Hee; Lee, W. H.; Lee, Dae-Woong) Derived limits and groups of pure extensions. (English summary) **2000g:55004**
Lee, W. H. *see* **Lee, Hong Jae et al., 2000g:55004**
Paré, Robert *see* **Grandis, Marco, 2000i:18007**
Pawłowski, Wiesław *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Zhang, Wen Xiu *see* **Zheng, Ya Lin**
Zheng, Ya Lin (*with* Zhang, Wen Xiu) The relationship among the connectedness of abstract categories, special objects and special morphisms. (Chinese. English and Chinese summaries)

18A32 Factorization of morphisms, substructures, quotient structures, congruences, amalgams

Alderton, I. W. Compactness in topological categories. (English summary) **2000h:18003**
FitzGerald, D. G. Green's relations in some categories of strong graph homomorphisms. (English summary) **2000c:18002**

Items with secondary classifications in 18A32

Bednarczyk, Marek A. (*with* Borzyszkowski, Andrzej M.; Pawłowski, Wiesław) Generalized congruences—epimorphisms in $\mathcal{E}at$. (English summary) **2000h:18002**
Borzyszkowski, Andrzej M. *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Enochs, Edgar E. (*with* García Rozas, Juan Ramón; Oyonarte, Luis) Are covering (enveloping) morphisms minimal? (English summary) **2000m:16011**
García Rozas, Juan Ramón *see* **Enochs, Edgar E. et al., 2000m:16011**
Janelidze, George (*with* Tholen, Walter) Extended Galois theory and dissonant morphisms. (English summary) **2000m:18006**
Oyonarte, Luis *see* **Enochs, Edgar E. et al., 2000m:16011**
Pawłowski, Wiesław *see* **Bednarczyk, Marek A. et al., 2000h:18002**
Tholen, Walter *see* **Janelidze, George, 2000m:18006**

18A35 Categories admitting limits (complete categories), functors preserving limits, completions

Gordon, Robert (*with* Power, A. John) Gabriel-Ulmer duality for categories enriched in bicategories. (English summary) **2000c:18003**
Power, A. John *see* **Gordon, Robert, 2000c:18003**

Items with secondary classifications in 18A35

Hu, Hongde (*with* Joyal, Andre) Coherence completions of categories. (English summary) **2000h:03114**
Joyal, Andre *see* **Hu, Hongde, 2000h:03114**
Teleiko, A. B. On extension of functors onto the Kleisli category of the inclusion hyperspace monad. (English summary) **2000b:18009**

18A40 Adjoint functors (universal constructions, reflective subcategories, Kan extensions, etc.)

Behera, Akrur (*with* Mishra, Amrutmayee) Adams completion and free group. (English summary)
Casacuberta, Carles (*with* Frei, Armin) On saturated classes of morphisms. (English summary) **2000m:18004**
Charalambous, M. G. Notes on paracompact coreflections of frames. (English summary) **2000e:18003**
Došen, Kosta Definitions of adjunction. (English summary) **2000i:18003**
Frei, Armin *see* **Casacuberta, Carles, 2000m:18004**
Hong, Sung Sa (*with* Nel, Louis Daniel[1]) When do right adjoint functors preserve initial families? **2000h:18004**
Li, Weiping[1] (*with* Yu, Yong Xi[1]) A necessary and sufficient condition on diffeomorphisms. (English and Chinese summaries) **2000m:18005**
Mishra, Amrutmayee *see* **Behera, Akrur**
Nel, Louis Daniel[1] *see* **Hong, Sung Sa, 2000h:18004**
Vajner, V. A colimit approach to reflective hulls of subcategories. (English summary) **2000h:18005**
Yu, Yong Xi[1] *see* **Li, Weiping[1], 2000m:18005**

Items with secondary classifications in 18A40

Bentley, H. Lamar (*with* Herrlich, Horst) Compactness and rings of continuous functions—without the axiom of choice. (English summary) **2000h:54036**
Brümmer, Guillaume Categorical aspects of the theory of quasi-uniform spaces. (English summary) **2000h:54014**
Chen, Jixiang Some pairs of adjoint functors involving track homotopy categories. (English summary) **2000h:55022**
Clark, David M. (*with* Davey, Brian A.) ★ Natural dualities for the working algebraist. (English summary) **2000d:18001**
Davey, Brian A. *see* **Clark, David M., 2000d:18001**
Enochs, Edgar E. (*with* Herzog, Ivo) A homotopy of quiver morphisms with applications to representations. (English summary) **2000f:16021**
Freyd, P. J. (*with* O'Hearn, Peter W.; Power, A. John; Takeyama, M.; Street, Ross H.; Tennent, R. D.) Bireflectivity. (English summary) **2000i:68110**
Gordon, Robert (*with* Power, A. John) Gabriel-Ulmer duality for categories enriched in bicategories. (English summary) **2000c:18003**
Herrlich, Horst (*with* Hušek, Miroslav) Productivity of coreflective classes of topological groups. (English summary) **2000m:54013**
— *see also* **Bentley, H. Lamar, 2000h:54036**
Herzog, Ivo *see* **Enochs, Edgar E., 2000f:16021**
Hušek, Miroslav *see* **Herrlich, Horst, 2000m:54013**
Janelidze, George (*with* Tholen, Walter) Extended Galois theory and dissonant morphisms. (English summary) **2000m:18006**
Katsov, Yefim Tensor products and injective envelopes of semimodules over additively regular semirings. (English summary) **2000b:16084**
Kawahara, Yasuo (*with* Mori, Masao[2]) A small final coalgebra theorem. (English summary) **2000k:68107**
Mori, Masao[2] *see* **Kawahara, Yasuo, 2000k:68107**
O'Hearn, Peter W. *see* **Freyd, P. J. et al., 2000i:68110**
Power, A. John *see* **Gordon, Robert, 2000c:18003** *and* **Freyd, P. J. et al., 2000i:68110**
Preuß, Gerhard Higher separation axioms, paracompactness and dimension for semiuniform convergence spaces. (English summary) **2000h:54005**
Street, Ross H. *see* **Freyd, P. J. et al., 2000i:68110**
Takeyama, M. *see* **Freyd, P. J. et al., 2000i:68110**
Tennent, R. D. *see* **Freyd, P. J. et al., 2000i:68110**
Tholen, Walter *see* **Janelidze, George, 2000m:18006**

18A99 None of the above, but in this section

Botnaru, D. V. Functorial quasi-identities. (Romanian. Romanian summary)
Janelidze, George (*with* Tholen, Walter) Extended Galois theory and dissonant morphisms. (English summary) **2000m:18006**
Jiang, Sheng Yuan (*with* Liu, Xiao Ji) Generalized inverses of morphisms with universal factorization. (Chinese. English and Chinese summaries) **2000h:18006**

Liu, Xiao Ji *see* **Jiang, Sheng Yuan, 2000h:18006**
Tholen, Walter *see* **Janelidze, George, 2000m:18006**

18Bxx Special categories

18B05 Category of sets, characterizations [see also 03–XX]

Borceux, Francis (*with* Succi Cruciani, Rosanna) Skew Ω-sets coincide with Ω-posets. (French summary) **2000b:18003**
Kurokawa, Nobushige (*with* Sasaki, Ryo; Tanuma, Hideki) Spectra of categories. **2000m:18007**
Sasaki, Ryo *see* **Kurokawa, Nobushige et al., 2000m:18007**
Succi Cruciani, Rosanna *see* **Borceux, Francis, 2000b:18003**
Tanuma, Hideki *see* **Kurokawa, Nobushige et al., 2000m:18007**

18B10 Category of relations, additive relations

Kabadayi, Hesna *n*-ordered topological structures in topological categories. (English summary)
Lambek, Joachim Diagram chasing in ordered categories with involution. (English summary) **2000j:18001**

Items with secondary classifications in 18B10

Bourn, Dominique Baer sums and fibered aspects of Mal'cev operations. (French summary) **2000j:18006**
Clementino, Maria Manuel (*with* Tholen, Walter) A characterization of the Vietoris topology. (English summary) **2000h:54012**
Šlapal, Josef A Galois correspondence between closure spaces and relational systems. (English summary) **2000e:18002**
Tholen, Walter *see* **Clementino, Maria Manuel, 2000h:54012**
Villadsen, Jesper On the stable rank of simple C^*-algebras. (English summary) **2000f:46075**
Vojtáš, Peter Series and Toeplitz matrices (a global implicit approach). (English summary) **2000i:03074**

18B15 Embedding theorems, universal categories [see also 18E20]

Pinto, M. C. Separable Kripke structures are algebraically universal. (English summary) **2000k:18002**
Velebil, Jiří Categorical generalization of a universal domain. (English summary) **2000k:18003**

Items with secondary classifications in 18B15

Gates, Robbie On generic separable objects. (English summary) **2000i:18015**
Murthy, Nistala V. E. S. (*with* Vaddiparthi, Yogeswara) A representation theorem for fuzzy subsystems of a fuzzy partial algebra. (English summary) **2000f:08003**
Vaddiparthi, Yogeswara *see* **Murthy, Nistala V. E. S., 2000f:08003**

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Urastaev, D. D. Injective objects in the categories of polybasic algebras and automata. (Russian. English, Russian and Kazakh summaries) **2000e:18004**
Watanabe, Hiroshi[6] The subobject classifier of the category of functional bisimulations. (English summary) **2000f:18002**

Items with secondary classifications in 18B20

Rosebrugh, Robert (*with* Sabadini, N.; Walters, R. F. C.) Minimal realization in bicategories of automata. (English summary) **2000b:68134**
Sabadini, N. *see* **Rosebrugh, Robert et al., 2000b:68134**
Walters, R. F. C. *see* **Rosebrugh, Robert et al., 2000b:68134**
Wolter, Uwe A coalgebraic introduction to CSP. (English summary) **2000d:68112**

18B25 Topoi [see also 03G30]

Butz, Carsten (*with* Moerdijk, Ieke) Représentation de topos par des espaces topologiques. (English and French summaries) [Representation of topoi by topological spaces] **2000b:18004**
Ebrahimi, M. Mehdi (*with* Mahmoudi, Mojgan) Flat projection algebras. (English summary) **2000i:18004**
Funk, Jonathon Randall On branched covers in topos theory. (English summary) **2000m:18008**
Jibladze, M. Lower bagdomain as a glueing. (English and Georgian summaries) **2000b:18005**
Kim, Ig Sung On some properties of the Blass topos. **2000c:18004**
Kock, Anders (*with* Reyes, Gonzalo E.) Aspects of fractional exponent functors. (English summary) **2000m:18009**
Madanshekaf, A. (*with* Tavakoli, J.) On the category of M-Sets. (English summary) **2000k:18004**
Mahmoudi, Mojgan *see* **Ebrahimi, M. Mehdi, 2000i:18004**
Moerdijk, Ieke *see* **Butz, Carsten, 2000b:18004**
Reyes, Gonzalo E. *see* **Kock, Anders, 2000m:18009**
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Vickers, Steven Topical categories of domains. (English summary) **2000h:18007**
Wang, Chang Chuan *see* **Yuan, Xue Hai**
Yamada, Shinichi Computer-aided synthetic reasoning in smooth infinitesimal calculus. (English summary) **2000b:18006**
Yuan, Xue Hai (*with* Wang, Chang Chuan) Fuzzy objects in an extensional topos. (Chinese. English and Chinese summaries)

Items with secondary classifications in 18B25

Butz, Carsten A topological completeness theorem. (English summary) **2000i:03092**
Johnstone, Peter A note on discrete Conduché fibrations. (English summary) **2000c:18001**
Kennison, John F. Synthetic solution manifolds for differential equations. (English summary) **2000k:34022**
Lawvere, F. William Kinship and mathematical categories. **2000f:03090**
Mahmoudi, Mojgan Internal injectivity of Boolean algebras in MSet. (English summary) **2000k:06015**
Mielke, M. V. Hausdorff separations and decidability. **2000h:18008**
van Oosten, Jaap Fibrations and calculi of fractions. (English summary) **2000k:18008**
Palmgren, Erik Developments in constructive nonstandard analysis. (English summary) **2000b:03218**
Watanabe, Hiroshi[6] The subobject classifier of the category of functional bisimulations. (English summary) **2000f:18002**

18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Altindiş, Hüseyin The notion of closedness in categories of reflexive relation spaces and preordered spaces. (English summary)
Banaschewski, Bernhard (*with* Hong, Sung Sa; Pultr, A.) On the completion of nearness frames. (English summary) **2000a:18001**
Castillo, Paul (*with* DiCristina, Gladys; Hajek, Darrell W.) Uniform continuity for all distance spaces. (English summary) **2000m:18010**
Császár, Ákos Strongly Morita loosenesses. (English summary)
Damphousse, Pierre (*with* Guitart, René) Liftings of Stone's monadicity to spaces and the duality between the calculi of inverse and direct images. (French summary) **2000g:18002**
DiCristina, Gladys *see* **Castillo, Paul et al., 2000m:18010**
Guitart, René *see* **Damphousse, Pierre, 2000g:18002**
Hajek, Darrell W. *see* **Castillo, Paul et al., 2000m:18010**
Herrlich, Horst (*with* Lowen, Robert) On simultaneously reflective and coreflective subconstructs. **2000i:18005**
Hong, Sung Sa *see* **Banaschewski, Bernhard et al., 2000a:18001**
Kock, Anders (*with* Reyes, Gonzalo E.) A note on frame distributions. (French summary) **2000i:18006**
Li, Sheng-Gang Inverse limits in category LTop. I. (English summary)
Lowen, Robert *see* **Herrlich, Horst, 2000i:18005**
Mielke, M. V. Hausdorff separations and decidability. **2000h:18008**
Pultr, A. *see* **Banaschewski, Bernhard et al., 2000a:18001**
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Richter, Günther Priestley type dualities revisited. (English summary) **2000h:18009**
Rosický, J. Cartesian closed exact completions. (English summary) **2000h:18010**
Teleiko, A. B. A continuum of normal monads. (English and Russian summaries) **2000d:18002**

Items with secondary classifications in 18B30

Abd-Allah, A. S. *see* **Gähler, Werner et al.**
Acosta G., Lorenzo Consistent topologies. (Spanish. English and Spanish summaries) **2000g:54023**
Alderton, I. W. Compactness in topological categories. (English summary) **2000h:18003**
Baboolal, D. (*with* Ori, R. G.) The Samuel compactification and uniform coreflection of nearness frames. **2000i:54010**
Banakh, Taras Preservation of metrizable absolute retracts and soft maps by covariant topological functors. (English and Russian summaries) **2000b:54009**
— (*with* Radul, T. N.) Geometry of mappings of spaces of probability measures. (Russian. English and Russian summaries) **2000d:54011**
Banaschewski, Bernhard On locally connected frames. (English summary) **2000k:54011**
Behera, Akrur Universal constructions for fuzzy topological spaces. (English summary)
Bentley, H. Lamar (*with* Herrlich, Horst) Doitchinov's construct of supertopological spaces is topological. (English summary) **2000a:54010**
Botnaru, D. V. A new approach to the definition of fuzzy spaces. (English summary)
— Functorial quasi-identities. (Romanian. Romanian summary)
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18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

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Kabadayi, Hesna n-ordered topological structures in topological categories. (English summary)
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18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20L05, 20Mxx]

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18Cxx Categories and theories

18C05 Equational categories [see also 03C05, 08C05]

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18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03G30]

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Power, A. John Enriched Lawvere theories. (English summary) **2000j:18002**
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Cîrstea, Corina A coequational approach to specifying behaviours. (English summary) **2000d:68095**
Gates, Robbie On generic separable objects. (English summary) **2000i:18015**
Korff, Leila Ribeiro Parallel composition of graph grammars. (English summary) **2000m:68111**
Power, A. John (*with* Watanabe, Hiroshi[6]) Distributivity for a monad and a comonad. (English summary) **2000d:68091**
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18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

Casacuberta, Carles (*with* Frei, Armin) Localizations as idempotent approximations to completions. (English summary) **2000f:18006**
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Lenisa, Marina From set-theoretic coinduction to coalgebraic coinduction: some results, some problems. (English summary) **2000c:68092**
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18C20 Algebras and Kleisli categories associated with monads

Levyts'ka, V. On extension of contravariant functors onto the Kleisli category. (English and Russian summaries) **2000a:18004**
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18C50 Categorical semantics of formal languages [see also 68Q55, 68Q65]

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Liu, Ying Ming *see* **Liang, Ji Hua**
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Mori, Masao[2] *see* **Kawahara, Yasuo, 2000k:68107**
Power, A. John (*with* Robinson, Edmund) Modularity and dyads. (English summary) **2000h:68138**
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18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories and generalizations

Betti, Renato A bicategorical approach to static modules. (English summary) **2000j:18003**
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Gordon, Robert (*with* Power, A. John) Algebraic structure for bicategory enriched categories. (English summary) **2000e:18005**
Grandis, Marco (*with* Paré, Robert) Limits in double categories. (French summary) **2000i:18007**
Koslowski, Jürgen A convenient category for games and interaction. (English summary) **2000i:18008**
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Moskalyuk, S. S. (*with* Vlasov, A. T.) Double categories in mathematical physics. (English, Russian and Ukrainian summaries) (*see* **2000c:00039**)
Omiadze, Z. II-categories. Identity 1-arrow retracts, coretracts and isomorphic 1-arrows. (English and Georgian summaries) **2000a:18005**
Paré, Robert *see* **Grandis, Marco, 2000i:18007**
Penon, Jacques Approche polygraphique des ∞-categories non strictes. (English summary) [Polygraphical approach to nonstrict ∞-categories] **2000c:18006**
Power, A. John *see* **Gordon, Robert, 2000e:18005**
Street, Ross H. The role of Michael Batanin's monoidal globular categories. (English summary) **2000a:18006**
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Brown, Ronald Groupoids and crossed objects in algebraic topology. (English summary) **2000d:55002**
Fan, Yun (*with* Xu, Bangteng) On the 2-category of triangulated categories and its t-split exact sequences. (English summary) **2000h:18020**
Getzler, E. Resolving mixed Hodge modules on configuration spaces. **2000j:14020**
Gordon, Robert (*with* Power, A. John) Gabriel-Ulmer duality for categories enriched in bicategories. (English summary) **2000c:18003**
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Makkai, Michael Towards a categorical foundation of mathematics. **2000f:03015**
Marmolejo, F. Distributive laws for pseudomonads. (English summary) **2000a:18003**
Porter, Timothy *see* **Kamps, K. H., 2000c:55014**
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— *see also* **Gordon, Robert, 2000c:18003**
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18D10 Monoidal categories (= multiplicative categories), symmetric monoidal categories, braided categories [see also 19D23]

Alonso Álvarez, José N. (*with* González Rodríguez, R.) Dyslexia and duals of Hopf algebras in braided monoidal categories. (English summary) **2000b:18010**
Barrett, John W. (*with* Westbury, Bruce W.) Spherical categories. (English summary) **2000c:18007**
Bobtcheva, Ivelina (*with* Quinn, Frank) Numerical presentations of tortile categories. (English summary) **2000e:18006**
Breen, Lawrence Monoidal categories and multiextensions. (English summary) **2000i:18009**
Carrasco, Pilar C. (*with* Garzón, Antonio R.; Miranda, Jesús G.) Classification cohomologique et homotopique des extensions singulières de Gr-catégories. (English and French summaries) [Cohomological and homotopical classification of singular extensions of categorical groups] **2000f:18008**
Chen, Hui Xiang Cocycle deformations, braided monoidal categories and quasitriangularity. (English summary)
— Quasitriangular bicrossed coproducts in braided monoidal categories. **2000i:18010**
— Bicrossed coproducts and monoidal functors. (Chinese. English and Chinese summaries) **2000f:18009**
Cockett, J. R. B. (*with* Seely, R. A. G.) Linearly distributive functors. (English summary) **2000m:18012**
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Došen, Kosta (*with* Petrić, Zoran) Isomorphic objects in symmetric monoidal closed categories. (English summary) **2000b:18011**
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Haddi, A. (*with* Hadj Nassar, S.) Produit tensoriel tressé et algèbre de Lie dans une catégorie tressée. (French summary) [Braided tensor product and Lie algebra in a braided category] **2000i:18011**
Hadj Nassar, S. *see* **Haddi, A., 2000i:18011**
Hayashi, Takahiro Face algebras and tensor categories. (Japanese) **2000h:18014**
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Miranda, Jesús G. *see* **Carrasco, Pilar C. et al., 2000f:18008**
Niwa, Masahiko Group completions. I. An observation from a category-theoretical point of view on the ordinary group completions of commutative monoids. (English summary) **2000b:18012**
Petrić, Zoran *see* **Došen, Kosta, 2000b:18011**
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— *see also* **Bobtcheva, Ivelina, 2000e:18006**
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Schmitt, William R. Categories of pairings. **2000h:18015**
Schneck, Robert R. Natural deduction and coherence for non-symmetric linearly distributive categories. (English summary) **2000m:18013**
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Tambara, Daisuke (*with* Yamagami, Shigeru) Tensor categories with fusion rules of self-duality for finite abelian groups. (English summary) **2000b:18013**
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18D20 Enriched categories (over closed or monoidal categories)

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— (*with* Pradhan, D. K.) On groupoid enriched skeleton. (English summary)
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18D25 Strong functors, strong adjunctions

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18D50 Operads [see also 55P48]

Chataur, David Formes différentielles pour les algèbres sur une opérade. (English and French summaries) [Differential forms for algebras over an operad] **2000i:18013**
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18Exx Abelian categories

18E05 Preadditive, additive categories

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18E10 Exact categories, abelian categories

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Lyubashenko, Volodymyr V. Squared Hopf algebras. (English summary) **2000e:18007**
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18E15 Grothendieck categories

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18E20 Embedding theorems [see also 18B15]

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18E25 Derived functors and satellites

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18E30 Derived categories, triangulated categories

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18E35 Localization of categories

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18Gxx Homological algebra [see also 13Dxx, 16Exx, 20Jxx, 55Nxx, 55Uxx, 57Txx]

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18G40 Spectral sequences, hypercohomology [see also 55Txx]

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18G50 Nonabelian homological algebra

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18G55 Homotopical algebra

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18G60 Other (co)homology theories [see also 19D55, 46L80, 58J20, 58J22]

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19–XX K-theory [see also 16E20, 18F25]

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19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A13 Stability for projective modules [see also 13C10]

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19A22 Frobenius induction, Burnside and representation rings

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19Bxx Whitehead groups and K_1

19B10 Stable range conditions

Items with secondary classifications in 19B10

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19B37 Congruence subgroup problems [see also 20H05]

Items with secondary classifications in 19B37

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19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

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19C20 Symbols, presentations and stability of K_2

Krstić, Sava (*with* McCool, James) Presenting $\mathrm{GL}_n(k\langle T\rangle)$. (English summary) **2000f:19001**
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19C40 Excision for K_2

Items with secondary classifications in 19C40

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19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

Anton, Marian F. On a conjecture of Quillen at the prime 3. (English summary) **2000m:19003**
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Elhamdadi, Mohamed A note on λ-operations in orthogonal K-theory. (English summary) **2000c:19004**

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19D10 Algebraic K-theory of spaces

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Williams, Bruce *see* **Weiss, Michael S., 2000c:19005**

Items with secondary classifications in 19D10

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19D23 Symmetric monoidal categories [see also 18D10]

Items with secondary classifications in 19D23

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19D25 Karoubi-Villamayor-Gersten K-theory

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Morel, Fabien Théorie homotopique des schémas. (English and French summaries) [Homotopy theory of schemes] **2000j:14031**

19D35 Negative K-theory, NK and Nil

Koźniewski, Tadeusz Splitting obstructions and properties of objects in the Nil categories. (English summary) **2000i:19005**
Munkholm, Hans J. (*with* Prassidis, Stratos) Waldhausen's nil groups and continuously controlled K-theory. (English summary) **2000i:19006**
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19D45 Higher symbols, Milnor K-theory

Kahn, Bruno La conjecture de Milnor (d'après V. Voevodsky). (French summary) [Milnor's conjecture (after V. Voevodsky)] **2000a:19002**
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Barge, Jean (*with* Morel, Fabien) Cohomologie des groupes linéaires, K-théorie de Milnor et groupes de Witt. (English and French summaries) [Cohomology of linear groups, Milnor K-theory and Witt groups] **2000a:20102**
Goncharov, A. B. Geometry of the trilogarithm and the motivic Lie algebra of a field. (English summary) **2000j:11096**
Kahn, Bruno (*with* Rost, Markus; Sujatha, R.) Unramified cohomology of quadrics. I. (English summary) **2000b:11041**
Knudson, Kevin P. On the K-theory of elliptic curves. (English summary) **2000b:20056**
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Rost, Markus A descent property for Pfister forms. (English summary) **2000f:11043**
— *see also* **Kahn, Bruno et al., 2000b:11041**
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19D50 Computations of higher K-theory of rings [see also 13D15, 16E20]

(Kolster, Manfred) *see* **Rognes, John, 2000g:19001**
Kuku, Aderemi O. Ranks of K_n and G_n of orders and group rings of finite groups over integers in number fields. (English summary) **2000d:19001**
Østvær, Paul Arne Calculation of two-primary algebraic K-theory of some group rings. (English summary) **2000d:19002**
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Cornacchia, Pietro (*with* Østvær, Paul Arne) On the Coates-Sinnott conjecture. (English summary) **2000m:19010**
Fu, Shitai Higher algebraic K-theory of smash products. (English summary) **2000a:16055**
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Lindenstrauss, Ayelet (*with* Madsen, Ib) Topological Hochschild homology of number rings. (English summary) **2000j:19003**
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— (*with* Østvær, Paul Arne) Two-primary algebraic K-theory of two-regular number fields. (English summary) **2000k:11131**
Weibel, Charles A. *see* **Rognes, John, 2000a:19006**
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19D55 K-theory and homology; cyclic homology and cohomology [see also 18G60]

Adem, Alejandro (*with* Karoubi, Max) Periodic cyclic cohomology of group rings. (English and French summaries) **2000b:19001**
Cortiñas, Guillermo H. On the derived functor analogy in the Cuntz-Quillen framework for cyclic homology. (English summary) **2000a:19003**
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Elbaz-Vincent, Philippe Homology of linear groups with coefficients in the adjoint action and K-theory. (English summary) **2000a:19004**
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Halbout, Gilles Homotopie explicite en (co)homologie de Hochschild. (English and French summaries) [Explicit homotopy formula for Hochschild (co)homology] **2000i:19010**
Igusa, Kiyoshi A multiplication in cyclic homology. (English summary) **2000c:19006**
Kantorovitz, Miriam Ruth (*with* Miller, Claudia) An explicit description of the Dennis trace map. (English summary) **2000m:19005**
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Connes, Alain (*with* Moscovici, Henri) Cyclic cohomology and Hopf algebras. (English summary) **2000j:16061**
Cortiñas, Guillermo H. On the cyclic homology of commutative algebras over arbitrary ground rings. **2000c:16010**
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Geoghegan, Ross (*with* Nicas, Andrew) A Hochschild homology Euler characteristic for circle actions. (English summary) **2000k:55004**
Gouda, Y. Gh. The relative dihedral homology of involutive algebras. (English summary) **2000j:16015**
— (*with* Alaa, H. N.) Quaternion homology of Banach space. (English summary) **2000k:46102**
Grønbæk, Niels (*with* Lau, Anthony To-Ming) On Hochschild cohomology of the augmentation ideal of a locally compact group. (English summary) **2000d:46088**
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Jaffe, Arthur Quantum harmonic analysis and geometric invariants. (English summary) **2000f:58064**
Ji, Ronghui Bivariant Chern character and the analog Baum-Connes map. **2000a:58068**
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Khalkhali, Masoud Operations on cyclic homology, the X complex, and a conjecture of Deligne. (English summary) **2000c:16011**
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Kuhn, Nicholas J. Rational cohomology and cohomological stability in generic representation theory. (English summary) **2000b:20057**
Lau, Anthony To-Ming *see* **Grønbæk, Niels, 2000d:46088**
Léandre, Rémi Stochastic cohomology and Hochschild cohomology. (*see* **2000k:00031**)
Lee, Dae-Woong Derived cup product and (strictly) derived groups. (English summary) **2000d:55011**
Lykova, Zinaida A. Relative cohomology of Banach algebras. (English summary) **2000g:46107**
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Nicas, Andrew *see* **Geoghegan, Ross, 2000k:55004**
Nistor, Victor *see* **Kazhdan, David et al., 2000b:16015**
Patras, Frédéric Adams operations and periodic cyclic cohomology. (English summary) **2000g:55029**
Rognes, John $K_4(\mathbf{Z})$ is the trivial group. (English summary) **2000i:19009**
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Weinstein, Alan D. (*with* Xu, Ping[1]) Hochschild cohomology and characteristic classes for star-products. (English summary) **2000m:53128**
Xu, Ping[1] *see* **Weinstein, Alan D., 2000m:53128**
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19Exx *K*-theory in geometry

19E08 *K*-theory of schemes [see also 14C35]

Items with secondary classifications in 19E08

Gillet, Henri K-theory and algebraic geometry. (English summary) **2000i:19012**
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19E15 Algebraic cycles and motivic cohomology [see also 14C25, 14C35]

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Spieß, Michael On indecomposable elements of K_1 of a product of elliptic curves. (English summary) **2000f:14013**
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19E20 Relations with cohomology theories [see also 14Fxx]

Delabre, Daniel Comparaison infinitésimale du régulateur de Connes-Karoubi avec une classe de Chern. (English and French summaries) [Infinitesimal comparison of the Connes-Karoubi regulator and a Chern class] **2000k:19002**
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19Fxx *K*-theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory [see also 11G45]

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Koya, Yoshihiro The Bloch-Kato conjecture for good reduction curves over local fields. (English summary) **2000i:19007**

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Matsumi, Kazuya ★ Arithmetic of three-dimensional complete regular local rings of positive characteristics. **2000f:11078**
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19F15 Symbols and arithmetic [see also 11R37]

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19F27 Étale cohomology, higher regulators, zeta and L-functions [see also 11G40, 11R42, 11S40, 14F20, 14G10]

Banaszak, Grzegorz (*with* Gajda, W.; Krasoń, P.; Zelewski, P.) A note on the Quillen-Lichtenbaum conjecture and the arithmetic of square rings. (English summary) **2000a:19005**
Chinburg, Ted (*with* Kolster, Manfred; Pappas, Georgios; Snaith, V.) Nearly perfect complexes and Galois module structure. (English summary) **2000i:19014**
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Vazzana, A. 8-ranks of K_2 of rings of integers in quadratic number fields. (English summary) **2000c:11191**

19Gxx K-theory of forms [see also 11Exx]

19G12 Witt groups of rings [see also 11E81]

Balmer, Paul Derived Witt groups of a scheme. (English summary) **2000i:19015**
Monnier, Jean-Philippe Application signature et anneaux archimédiens. [Signature mapping and Archimedean rings] **2000e:19005**
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Pumpluen, S. The Witt group of symmetric bilinear forms over a Brauer-Severi variety with values in a line bundle. (English summary) **2000i:19016**
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Adem, Alejandro (*with* Karagueuzian, Dikran B.; Minac, Jan) Topological models and cohomology of Galois groups. (English and French summaries) **2000b:12008**
Badea, C. Stable ranks, K-groups and Witt groups of some Banach and C^*-algebras. (English summary) **2000c:46089**
Barge, Jean (*with* Morel, Fabien) Cohomologie des groupes linéaires, K-théorie de Milnor et groupes de Witt. (English and French summaries) [Cohomology of linear groups, Milnor K-theory and Witt groups] **2000a:20102**
Dickmann, M. A. (*with* Miraglia, Francisco) Special groups Boolean-theoretic methods in the theory of quadratic forms. (English summary) **2000j:11052**
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Ojanguren, Manuel (*with* Panin, Ivan) A purity theorem for the Witt group. (English and French summaries) **2000a:11057**
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Pumplün, S. The Witt ring of a Brauer-Severi variety. (English summary) **2000c:14018**
Szymiczek, Kazimierz On the Milnor exact sequence for rational quadratic forms. (English summary) **2000e:11046**

19G24 L-theory of group rings [see also 11E81]

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Ranicki, Andrew ★ High-dimensional knot theory. (English summary) **2000i:57044**
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19G38 Hermitian K-theory, relations with K-theory of rings

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19Jxx Obstructions from topology

19J05 Finiteness and other obstructions in K_0

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Connolly, Frank (*with* Vajiac, Bogdan) An end theorem for stratified spaces. (English summary) **2000f:57021**
Vajiac, Bogdan *see* **Connolly, Frank, 2000f:57021**

19J25 Surgery obstructions [see also 57R67]

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Muranov, Yu. V. (*with* Repovš, Dušan D.) Surgeries of closed manifolds with a dihedral fundamental group. (Russian. Russian summary) **2000e:57056**
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19J35 Obstructions to group actions

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19Kxx *K*-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

Rørdam, Mikael (*with* Villadsen, Jesper) On the ordered K_0-group of universal, free product C^*-algebras. (English summary) **2000a:19007**
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19K33 EXT and K-homology [see also 55N22]

Guentner, Erik Relative E-theory. (English summary) **2000k:19004**

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Carey, Alan L. (*with* Phillips, John) Unbounded Fredholm modules and spectral flow. (English summary) **2000g:58041**
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19K35 Kasparov theory (KK-theory) [see also 58J22]

Haag, Ulrich On $\mathbf{Z}/2\mathbf{Z}$-graded KK-theory and its relation with the graded Ext-functor. (English summary) **2000j:19004**
Houghton-Larsen, T. G. (*with* Thomsen, Klaus) Universal (co)homology theories. (English summary) **2000f:19005**
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Tu, Jean-Louis La conjecture de Baum-Connes pour les feuilletages moyennables. (English and French summaries) [The Baum-Connes conjecture for amenable foliations] **2000g:19004**
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Chabert, Jérôme Stabilité de la conjecture de Baum-Connes pour certains produits semi-directs de groupes. (English and French summaries) [Stability of the Baum-Connes conjecture for certain semidirect products of groups] **2000e:46086**
Cuntz, Joachim A general construction of bivariant K-theories on the category of C^*-algebras. (English summary) **2000b:46125**
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Jiang, Xinhui (*with* Su, Hongbing) On a simple unital projectionless C^*-algebra. (English summary) **2000a:46104**
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Macho Stadler, Marta (*with* O'uchi, Moto) Correspondence of groupoid C^*-algebras. (English summary) **2000f:46077**
Maghfoul, Mohamed Semi-exactitude du bifoncteur de Kasparov équivariant. (English summary) [Semi-exactness of Kasparov equivariant bifunctors] **2000f:46088**
Mathai, Varghese K-theory of twisted group C^*-algebras and positive scalar curvature. (English summary) **2000k:58031**
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19K56 Index theory [see also 58J20, 58J22]

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Lescure, Jean-Marie Triplets spectraux pour les pseudovariétés à singularité conique isolée. (English and French summaries) [Spectral triples for pseudomanifolds with isolated conical singularity] **2000b:58051**
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20Axx Foundations

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20Bxx Permutation groups

20B05 General theory for finite groups

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Neumann, Peter M. (*with* Praeger, Cheryl E.) On the movement of a permutation group. **2000d:20003**
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20B07 General theory for infinite groups

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Leinen, Felix (*with* Puglisi, Orazio) Finitary representations and images of transitive finitary permutation groups. (English summary) **2000i:20003**
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Sharp, Graham R. Algorithmic recognition of actions of 2-homogeneous groups on pairs. (English summary) **2000a:20007**
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20B20 Multiply transitive finite groups

Barry, Michael J. J. (*with* Ward, Michael B.) Two-transitive actions on conjugacy classes. (English summary) **2000e:20006**
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Ward, Michael B. *see* **Barry, Michael J. J., 2000e:20006**

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Rinaldi, Gloria Transformation of projective planes and permutation sets. (English summary) **2000i:52001**

20B22 Multiply transitive infinite groups

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Truss, John K. Joint embeddings of infinite permutation groups. (English summary) **2000i:20005**

20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [see also 05Bxx, 12F10, 20G40, 20H30, 51–XX]

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Kassab, Jalal N. On the enumeration of orbits of a permutation group. (English summary) **2000g:20008**

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Baumeister, Barbara On flag transitive $c.c^*$-geometries admitting a duality. (English summary) **2000h:51023**
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Biliotti, Mauro Collineation groups preserving a unital in a projective plane of order m^2 with $m \equiv 1(4)$. (English summary) **2000i:51021**
van Bon, John (*with* Ivanov, Aleksandr Anatol'evich; Saxl, Jan) Affine distance-transitive graphs with sporadic stabilizer. (English summary) **2000b:05068**
Božikov, Zdravka On the problem of existence of biplanes with parameters (301, 25, 2). (English and Croatian summaries)
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Cerroni, Cinzia (*with* Spera, Antonino Giorgio) On divisible designs and twisted field planes. (English summary) **2000m:05050**
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Du, Shao-Fei (*with* Marušič, Dragan) An infinite family of biprimitive semisymmetric graphs. (English summary) **2000k:05135**
Fang, Xin Gui (*with* Havas, George; Wang, Jie[3]) Automorphism groups of certain non-quasiprimitive almost simple graphs. **2000h:05104**
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Kontogeorgis, Aristides The group of automorphisms of cyclic extensions of rational function fields. (English summary) **2000f:12005**
Kozlov, Dmitry N. Collapsibility of $\Delta(\Pi_n)/\mathcal{S}_n$ and some related CW complexes. (English summary) **2000k:57023**
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Praeger, Cheryl E. *see* **Ivanov, Aleksandr Anatol'evich, 2000b:05071**;**Fang, Xin Gui et al., 2000e:05082**;**2000e:05083**;**2000j:05056** *and* **Hassani, Akbar et al., 2000h:05105**
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Saxl, Jan *see* **van Bon, John et al., 2000b:05068**
Schmidt, E. T. *see* **Grätzer, George, 2000b:06025**
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Shpektorov, S. V. *see* **Cohen, Arjeh M. et al., 2000j:05128**
Spera, Antonino Giorgio *see* **Cerroni, Cinzia, 2000m:05050**
Tarakanov, V. E. Automorphism groups of circulants, and adjacency matrices of graphs. (Russian. Russian summary) **2000k:05189**
Tonchev, Vladimir D. *see* **Jungnickel, Dieter, 2000h:05037**
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20B27 Infinite automorphism groups [see also 12F10]

Evans, David M. (*with* Lascar, Daniel) The automorphism group of the field of complex numbers is complete. **2000f:20001**
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Albert, Michael (*with* Chowdhury, Ambar) The rationals have an AZ-enumeration. **2000f:03100**
Camina, Alan R. Block-transitive, point-intransitive block designs. **2000d:51009**
Chowdhury, Ambar *see* **Albert, Michael, 2000f:03100**
Drensky, Vesselin ★ Free algebras and PI-algebras. (English summary) **2000j:16002**
Ivanov, Alexandre A. Finite covers, cohomology and homogeneous structures. **2000b:03119**
Leinen, Felix (*with* Puglisi, Orazio) Finitary representations and images of transitive finitary permutation groups. (English summary) **2000i:20003**
Pan, Ivan Une remarque sur la génération du groupe de Cremona. (English and French summaries) [A remark on the generation of the Cremona group] **2000b:14015**
Puglisi, Orazio *see* **Leinen, Felix, 2000i:20003**
Tararin, V. M. 0-2-transitive automorphism groups with abelian point stabilizer. (Russian. Russian summary) **2000g:20007**
Thomas, Simon R. Cofinalities of infinite permutation groups. (English summary) **2000a:20005**
Truss, John K. Joint embeddings of infinite permutation groups. (English summary) **2000i:20005**

20B30 Symmetric groups

Berkovich, Yakov Solvable permutation groups of maximal composition length. (English summary) **2000b:20003**
Bryan, Jim (*with* Fulman, Jason) Orbifold Euler characteristics and the number of commuting m-tuples in the symmetric groups. (English summary) **2000f:20002**
Dussaud, René Caractérisation arithmétique des groupes monogènes. (French summary) [Arithmetical characterization of cyclic groups] (*see* **2000c:00026**)
Ensley, Douglas E. Invariants under group actions to amaze your friends.
Fulman, Jason *see* **Bryan, Jim, 2000f:20002**
Huang, Ben Wen A new characterization of the symmetric group S_6. (Chinese. English and Chinese summaries)
Iliev, Valentin Vankov On certain permutation groups with operators and a class of their generating systems. (English summary) **2000a:20009**
Ivanov, V. N. (*with* Kerov, S. V.) The algebra of conjugacy classes in symmetric groups, and partial permutations. (Russian. English and Russian summaries) **2000g:20010**
Kerov, S. V. *see* **Ivanov, V. N., 2000g:20010**
Mysovskikh, V. I. (*with* Skopin, A. I.) Embeddings of subgroups in the symmetric group of degree nine. (Russian. English and Russian summaries)
Odrĭbets', S. P. The lattice of normal subgroups of the wreath product of a permutation group with an abstract group. (Ukrainian. English and Russian summaries) **2000i:20004**
Ono, Takashi (*with* Wada, Hideo) "Hasse principle" for symmetric and alternating groups.
Ponsones, Rigor B. Orbitals of a subgroup of the wreath products of symmetric groups. (English summary) **2000g:20011**
Skopin, A. I. *see* **Mysovskikh, V. I.**
Takegahara, Yugen On the Frobenius numbers of symmetric groups. **2000m:20002**
Truss, John K. Joint embeddings of infinite permutation groups. (English summary) **2000i:20005**
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Biryukov, Petr A. (*with* Mishkin, V. V.) Set ideals with maximal symmetry group and minimal dynamical systems. (English summary) **2000i:20002**
Bodnarchuk, Yu. V. (*with* Lavrenyuk, Ya. V.) The automorphism group of a normalizer of the Sylow p-subgroup of the symmetric group S_{p^n}. (Ukrainian. English summary) **2000i:20057**
Durnev, V. G. (*with* Shalashov, V. K.) On universal theories of symmetric groups. (Russian) **2000m:03106**
Dussaud, René Polygones metacycliques réciproques. (French summary) [Reciprocal metacyclic polygons] **2000f:52016**
— Sur quelques réalisations polynomiales. (French summary) [On some polynomial realizations] **2000g:11113**
— Réalisations polynomiales équivalentes. (French summary) [Equivalent polynomial realizations] **2000g:11114**
Hjorth, Greg (*with* Kechris, Alexander S.; Louveau, Alain) Borel equivalence relations induced by actions of the symmetric group. (English summary) **2000a:03081**
Kechris, Alexander S. *see* **Hjorth, Greg et al., 2000a:03081**
Kerov, S. V. *see* **Vershik, Anatolii Moiseevich, 2000b:22006**
Lavrenyuk, Ya. V. *see* **Bodnarchuk, Yu. V., 2000i:20057**
Louveau, Alain *see* **Hjorth, Greg et al., 2000a:03081**
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Mushtaq, Qaiser (*with* Ali, Asif) On groups $G^{5,5,180}$. (English summary) **2000d:20043**
Okun'kov, A. On representations of the infinite symmetric group. (Russian. English and Russian summaries) **2000c:20027**
Polo, Patrick Construction de polynômes de Kazhdan-Lusztig arbitraires. (English and French summaries) [Construction of arbitrary Kazhdan-Lusztig polynomials] **2000a:14059**
Shalashov, V. K. *see* **Durnev, V. G., 2000m:03106**
Shelah, Saharon (*with* Truss, John K.) On distinguishing quotients of symmetric groups. (English summary) **2000f:03114**
Thomas, Simon R. Groupwise density and the confinality of the infinite symmetric group. (English summary) **2000c:03038**
Truss, John K. *see* **Shelah, Saharon, 2000f:03114**
Vershik, Anatolii Moiseevich (*with* Kerov, S. V.) On an infinite-dimensional group over a finite field. (Russian. Russian summary) **2000b:22006**

20B35 Subgroups of symmetric groups

Berkovich, Yakov Solvable permutation groups of maximal derived length. (English summary) **2000b:20004**
Lavič, Boris The group of order automorphisms of the real line. (Slovenian. English and Slovenian summaries)
Mishkin, V. V. Set ideals with complete symmetry group and partition ideals. (English summary) **2000h:20006**

Items with secondary classifications in 20B35

Iliev, Valentin Vankov On certain permutation groups with operators and a class of their generating systems. (English summary) **2000a:20009**
Zil'ber, B. I. Hereditarily transitive groups and quasi-Urbanik structures [MR 90a:03052]. (*see* **2000h:03007**)

20B40 Computational methods

Cuypers, Hans (*with* Soicher, Leonard H.; Sterk, Hans) Working with finite groups. **2000b:20005**
Kantor, William M. (*with* Penttila, Tim) Reconstructing simple group actions. (English summary) **2000h:20008**
— (*with* Seress, Ákos) Permutation group algorithms via black box recognition algorithms. (English summary) **2000h:20007**
— (*with* Luks, Eugene M.; Mark, Peter D.) Sylow subgroups in parallel. (English summary) **2000e:20007**
Kocay, William A modification of the Schreier-Sims algorithm utilising the transitivity of the stabiliser subgroups. (English summary) **2000h:20009**
Luks, Eugene M. *see* **Kantor, William M. et al., 2000e:20007**
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Seress, Ákos Nearly linear time algorithms for permutation groups: an interplay between theory and practice. (English summary) **2000e:20008**
— *see also* **Kantor, William M., 2000h:20007**
Sharp, Graham R. Algorithmic recognition of group actions on orbitals. (English summary) **2000d:20006**
Soicher, Leonard H. *see* **Cuypers, Hans et al., 2000b:20005**
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Abdeljaouad, Ines Calculs d'invariants primitifs de groupes finis. (English and French summaries) [Calculating primitive invariants of finite groups] **2000i:13006**
Ettinger, Mark (*with* Høyer, Peter) On quantum algorithms for noncommutative hidden subgroups. (English summary) **2000j:68044**
Gluck, David (*with* Magaard, Kay) Base sizes and regular orbits for coprime affine permutation groups. **2000a:20006**
Høyer, Peter *see* **Ettinger, Mark, 2000j:68044**
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Pak, Igor When and how n choose k. (English summary) **2000a:05004**
Sharp, Graham R. Algorithmic recognition of actions of 2-homogeneous groups on pairs. (English summary) **2000a:20007**
Vaughan, Theresa P. Factoring a permutation on a broom. (English summary) **2000h:05109**

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Arvind, Vikraman (*with* Torán, Jacobo) A nonadaptive NC checker for permutation group intersection. (English summary) (*see* **2000m:68005**)
Azhar, S. (*with* Reif, John H.) Efficient algorithmic learning of the structure of permutation groups by examples. (English summary) **2000k:68177**
Goldberg, Leslie Ann (*with* Jerrum, Mark) The "Burnside process" converges slowly. (English summary) **2000k:68113**
Jerrum, Mark *see* **Goldberg, Leslie Ann, 2000k:68113**
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20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

Items with secondary classifications in 20Cxx

(Friedman, Joel) *see* **Errata: "On the Betti numbers of chessboard complexes", 2000e:05158**
(Hanlon, Phil) *see* **Errata: "On the Betti numbers of chessboard complexes", 2000e:05158**

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Errata:
"On the Betti numbers of chessboard complexes" Erratum: "On the Betti numbers of chessboard complexes" [J. Algebraic Combin. **8** (1998), no. 2, 193–203; MR 2000c:05155] by J. Friedman and P. Hanlon. **2000e:05158**

20C05 Group rings of finite groups and their modules [see also 16S34]

Alvis, Dean Units in Hecke algebras. (English summary) **2000f:20003**
Bagiński, Czesław On the isomorphism problem for modular group algebras of elementary abelian-by-cyclic p-groups. (English summary) **2000j:20005**
Barker, Laurence The dimension of a primitive interior G-algebra. (English summary) **2000g:20012**
Benson, David John Flat modules over group rings of finite groups. (English summary) **2000g:20013**
Bleher, Frauke M. (*with* Kimmerle, Wolfgang; Roggenkamp, Klaus W.; Wursthorn, Martin) Computational aspects of the isomorphism problem. **2000c:20007**
Bouc, Serge Sur le centre des algèbres de groupe en caractéristique p. (English summary) [On the center of group algebras of characteristic p]
Gudivok, P. M. On representations of twisted group rings of finite groups and of rings of p-adic integers. (Russian. English summary) **2000e:20009**
Hagita, Mariko (*with* Schmidt, Bernhard) Folding maps in group rings. (English summary) (*see* **2000m:05002**)
Hanaki, Akihide (*with* Koshitani, Shigeo) Local subgroups and group algebras of finite p-solvable groups. (English summary) **2000c:20008**
Hertweck, Martin (*with* Kimmerle, Wolfgang) On the F^*-theorem. **2000i:20006**
Hida, Akihiko (*with* Koshitani, Shigeo) Morita equivalent blocks in non-normal subgroups and p-radical blocks in finite groups. (English summary) **2000g:20014**
Kimmerle, Wolfgang *see* **Bleher, Frauke M. et al., 2000c:20007** *and* **Hertweck, Martin, 2000i:20006**
Koshitani, Shigeo *see* **Hanaki, Akihide, 2000c:20008** *and* **Hida, Akihiko, 2000g:20014**
Lei, Tian Gang Positive semi-definiteness in a group algebra. (English summary) **2000c:20009**
Li, Yuanlin (*with* Sehgal, Sudarshan K.; Parmenter, M. M.) On the normalizer property for integral group rings. (English summary) **2000h:20010**
Murray, John C. Blocks of defect zero and products of elements of order p. (English summary) **2000e:20010**
Nebe, Gabriele Orthogonal Frobenius reciprocity. (English summary) **2000m:20003**
Park, Won-Sun The units and idempotents in the group ring of abelian groups $Z_2 \times Z_2 \times Z_2$ and $Z_2 \times Z_4$. (English summary) **2000g:20015**
Parmenter, M. M. *see* **Li, Yuanlin et al., 2000h:20010**
Robinson, Geoffrey R. On the $k(GV)$-problem. (*see* **2000e:20003**)
Roggenkamp, Klaus W. The isomorphism problem for integral group rings. (English summary) **2000j:20006**
— *see also* **Bleher, Frauke M. et al., 2000c:20007**
Schaps, Mary Quivers of groups with normal p-subgroups. (English summary) **2000c:20010**
Schmidt, Bernhard *see* **Hagita, Mariko, (2000m:05002)**
Sehgal, Sudarshan K. *see* **Li, Yuanlin et al., 2000h:20010**
Wursthorn, Martin *see* **Bleher, Frauke M. et al., 2000c:20007**

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Aleev, R. Zh. Central units of integral group rings of finite groups. (Russian)
Bleher, Frauke M. (*with* Chinburg, Ted) Operations on ring structures preserved by normalized automorphisms of group rings. (English summary) **2000b:16051**
Bovdi, V. A. On a filtered multiplicative basis of group algebras. (English summary) **2000j:16042**
Bryant, Roger M. (*with* Stöhr, Ralph) On the module structure of free Lie algebras. (English summary) **2000c:17002**
Chen, Huan Yin Extensions of modules over commutative group algebras. (English summary) **2000c:20011**
Chinburg, Ted *see* **Bleher, Frauke M., 2000b:16051**
Dokuchaev, M. A. (*with* Juriaans, S. O.; Polcino Milies, César; Singer, M. L. Sobral) FC centres of units in algebras and orders. (French summary) **2000k:16038**
Dong, Xue-Dong (*with* Soh, Cheong Boon; Gunawan, Erry) Some ring-theoretic properties of group algebras. **2000d:16037**
Fan, Yun Remarks on twisted Y-group algebras. (English summary) **2000d:16039**
— (*with* Puig, Lluis) On blocks with nilpotent coefficient extensions. (English summary) **2000e:20019a**
— *see also* **Errata: "On blocks with nilpotent coefficient extensions", 2000e:20019b**
Gerstenhaber, Murray (*with* Giaquinto, Anthony) Compatible deformations. (English summary) **2000c:16029**
Giaquinto, Anthony *see* **Gerstenhaber, Murray, 2000c:16029**
Girstmair, Kurt Linear relations between roots of polynomials. **2000e:12005**
Gunawan, Erry *see* **Dong, Xue-Dong et al., 2000d:16037**
Harris, Morton E. Splendid derived equivalences for blocks of finite groups. **2000k:20014**
Juriaans, S. O. *see* **Dokuchaev, M. A. et al., 2000k:16038**
Kimmerle, Wolfgang On the normalizer problem. **2000c:20013**
Koshitani, Shigeo (*with* Waki, Katsushi) The Loewy structure of the projective modules of the Mathieu group M_{12} and its automorphism group in characteristic 3. (English summary) **2000a:20028**
— (*with* Waki, Katsushi) The Green correspondents of the Mathieu group M_{12} in characteristic 3. (English summary) **2000a:20029**
Krause, Henning Decomposing thick subcategories of the stable module category. (English summary) **2000e:20020**
Li, Yuanlin Units of $\mathbf{Z}(G \times C_2)$. (English summary) **2000c:16042**
Marciniak, Zbigniew S. (*with* Sehgal, Sudarshan K.) Torsion matrices over abelian group rings. (English summary) **2000j:16043**
Ohmori, Zyozyu On the Schur indices of certain irreducible characters of finite Chevalley groups. (English summary) **2000d:20009**
Polcino Milies, César (*with* Sehgal, Sudarshan K.) Central units of integral group rings. (English summary) **2000i:16067**
— *see also* **Dokuchaev, M. A. et al., 2000k:16038**
Puig, Lluis *see* **Fan, Yun, 2000e:20019a;2000e:20019b** *and* **Errata: "On blocks with nilpotent coefficient extensions", 2000e:20019b**
Robinson, Geoffrey R. Arithmetical properties of blocks. **2000a:20020**
Roggenkamp, Klaus W. From Dedekind's group determinant to the isomorphism problem. **2000h:20014**
Sehgal, Sudarshan K. *see* **Polcino Milies, César, 2000i:16067** *and* **Marciniak, Zbigniew S., 2000j:16043**
Siegel, Stephen F. (*with* Witherspoon, Sarah J.) The Hochschild cohomology ring of a cyclic block. (English summary) **2000j:16016**
Singer, M. L. Sobral *see* **Dokuchaev, M. A. et al., 2000k:16038**
Soh, Cheong Boon *see* **Dong, Xue-Dong et al., 2000d:16037**
Stöhr, Ralph *see* **Bryant, Roger M., 2000c:17002**
Wada, Tomoyuki Some results on eigenvalues of the Cartan matrices for finite groups. **2000g:20025**
Waki, Katsushi *see* **Koshitani, Shigeo, 2000a:20028** *and* **2000a:20029**
Weidner, Michael Augmentation-filtration and normal distribution. (English summary) **2000d:16038**
Witherspoon, Sarah J. *see* **Siegel, Stephen F., 2000j:16016**

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"On blocks with nilpotent coefficient extensions" Erratum: "On blocks with nilpotent coefficient extensions" [Algebr. Represent. Theory **1** (1998), no. 1, 27–73; MR 2000e:20019a] by Y. Fan and L. Puig. **2000e:20019b**

20C07 Group rings of infinite groups and their modules [see also 16S34]

Chen, Huan Yin Extensions of modules over commutative group algebras. (English summary) **2000c:20011**
Héthelyi, L. (*with* Szőke, M.) On the 2 out of 3 lemma. (English summary) **2000m:20004**
Iiyori, Nobuo Functions over groups. (Japanese) (*see* **2000a:20002**)
Linnell, Peter A. Analytic versions of the zero divisor conjecture. **2000g:20016**
Razdan, Atul *see* **Tahara, Ken-Ichi et al., 2000h:20011**
Szőke, M. *see* **Héthelyi, L., 2000m:20004**

Tahara, Ken-Ichi (*with* Vermani, L. R.; Razdan, Atul) On generalized third dimension subgroups. (English summary) **2000h:20011**
Tushev, A. V. On modules over group rings of soluble groups of finite rank. **2000j:20007**
— Induced modules over group algebras of metabelian groups of finite rank. **2000j:20008**
Vermani, L. R. *see* **Tahara, Ken-Ichi et al., 2000h:20011**

Items with secondary classifications in 20C07

Danchev, Peter V. Invariants for commutative group algebras of mixed and torsion groups. (English summary) **2000k:16031**
— Isomorphism of modular group algebras of direct sums of torsion-complete abelian p-groups. (English summary) **2000i:16053**
Dong, Xue-Dong (*with* Soh, Cheong Boon; Gunawan, Erry) Some ring-theoretic properties of group algebras. **2000d:16037**
Evans, Martin J. Epimorphisms between the free groups in a variety of groups. **2000j:20045**
Gunawan, Erry *see* **Dong, Xue-Dong et al., 2000d:16037**
Hales, A. W. (*with* Passi, I. B. S.) Jordan decomposition. **2000d:16035**
Jespers, Eric (*with* Juriaans, S. O.) Isomorphisms of integral group rings of infinite groups. (English summary) **2000k:16032**
Juriaans, S. O. *see* **Jespers, Eric, 2000k:16032**
Kang, Byung Gyun Divisibility properties of group rings over torsion-free abelian groups. (English summary) **2000f:13017**
Lee, Gregory T. Group rings whose symmetric elements are Lie nilpotent. (English summary) **2000b:16052**
Mazur, Marcin The normalizer of a group in the unit group of its group ring. **2000a:16058**
Mollov, Todor Zh. *see* **Nachev, Nako A., 2000b:16053**
Nachev, Nako A. (*with* Mollov, Todor Zh.) On the isomorphism of semisimple group algebras. (English summary) **2000b:16053**
Passi, I. B. S. *see* **Hales, A. W., 2000d:16035**
Polcino Milies, César (*with* Sehgal, Sudarshan K.) Central units of integral group rings. (English summary) **2000i:16067**
Sehgal, Sudarshan K. *see* **Polcino Milies, César, 2000i:16067**
Simonetta, Patrick Équivalence élémentaire et décidabilité pour des structures du type groupe agissant sur un groupe abélien. (English summary) [Elementary equivalence and decidability for structures of a group acting on an abelian group] **2000e:03111**
Soh, Cheong Boon *see* **Dong, Xue-Dong et al., 2000d:16037**
Vermani, L. R. On subgroups determined by ideals of an integral group ring. **2000c:16037**
Weidner, Michael Augmentation-filtration and normal distribution. (English summary) **2000d:16038**

20C08 Hecke algebras and their representations

Arad, Zvi (*with* Fisman, E.; Muzychuk, Mikhail) Generalized table algebras. (English summary) **2000m:20005**
Brundan, Jonathan Modular branching rules and the Mullineux map for Hecke algebras of type A. **2000d:20007**
Cangül, İsmail Naci Normal subgroups and elements of $H'(\lambda_q)$. (English summary)
du Cloux, Fokko Some open problems in the theory of Kazhdan-Lusztig polynomials and Coxeter groups. **2000g:20017**
Dipper, Richard (*with* Gruber, Jochen) Generalized q-Schur algebras and modular representation theory of finite groups with split (BN)-pairs. (English summary) **2000h:20012**
Erdmann, Karin (*with* Green, R. M.) On representations of affine Temperley-Lieb algebras. II. (English summary) **2000m:20006**
Fan, C. Kenneth (*with* Green, R. M.) On the affine Temperley-Lieb algebras. (English summary) **2000m:20007**
Fisman, E. *see* **Arad, Zvi et al., 2000m:20005**
Foda, Omar (*with* Leclerc, Bernard; Okado, Masato; Thibon, Jean-Yves; Welsh, Trevor A.) Combinatorics of solvable lattice models, and modular representations of Hecke algebras. (English summary) **2000m:20008**
Francis, Andrew The minimal basis for the centre of an Iwahori-Hecke algebra. (English summary) **2000k:20005**
Geck, Meinolf Representations of Hecke algebras at roots of unity. (French summary) **2000g:20018**
— The character table of the Iwahori-Hecke algebra of the symmetric group: Starkey's rule. (English and French summaries) **2000j:20009**
Green, R. M. *see* **Erdmann, Karin, 2000m:20006** *and* **Fan, C. Kenneth, 2000m:20007**
Gruber, Jochen *see* **Dipper, Richard, 2000h:20012**
Jost, Thomas Morita equivalence for blocks of Hecke algebras of type B. **2000g:20019**
Kono, Seiji *see* **Yamane, Hiroyuki, (2000m:00037)**
Lazarus, Xavier Module universel en caractéristique $l > 0$ associé à un caractère de l'algèbre de Hecke de $\mathrm{GL}(n)$ sur un corps p-adique, avec $l \neq p$. (French summary) [The universal module of characteristic $l > 0$ associated with a character of the Hecke algebra of $\mathrm{GL}(n)$ over a p-adic field, with $l \neq p$] **2000f:20004**
Leclerc, Bernard (*with* Thibon, Jean-Yves) Représentations induites d'algèbres de Hecke affines et singularités de R-matrices. (English and French summaries) [Induced representations of affine Hecke algebras and singularities of R-matrices] **2000i:20007**
— *see also* **Foda, Omar et al., 2000m:20008**
Muzychuk, Mikhail *see* **Arad, Zvi et al., 2000m:20005**
Oehms, Sebastian ★ Symplektische q-Schur-Algebren. (German) [Symplectic q-Schur algebras] **2000f:20005**
Okado, Masato *see* **Foda, Omar et al., 2000m:20008**
Parvathi, M. (*with* Santhi, N. Caroline Esther) Representations of Hecke algebras of type B_n. **2000i:20008**
Peretz, M. (*with* Schaps, Mary) Hecke algebras and separable deformations of dihedral groups. (English summary) **2000i:20009**
Putcha, Mohan S. Hecke algebras and semisimplicity of monoid algebras. (English summary) **2000j:20010**
Ram, Arun (*with* Taylor, D. E.) Explicit irreducible representations of the Iwahori-Hecke algebra of type F_4. (English summary) **2000i:20010**
Rui, Hebing On endomorphism algebras arising from Hecke algebras. **2000j:20011**
Santhi, N. Caroline Esther *see* **Parvathi, M., 2000i:20008**
Schaps, Mary *see* **Peretz, M., 2000i:20009**
Taylor, D. E. *see* **Ram, Arun, 2000i:20010**
Thibon, Jean-Yves *see* **Leclerc, Bernard, 2000i:20007** *and* **Foda, Omar et al., 2000m:20008**
Welsh, Trevor A. *see* **Foda, Omar et al., 2000m:20008**
Yamane, Hiroyuki (*with* Kono, Seiji) On the characters of Wenzl's $(3, l)$-diagram representations of the Iwahori-Hecke algebras at $\sqrt{1}$. (*see* **2000m:00037**)

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Arakawa, Tomoyuki (*with* Suzuki, Takeshi; Tsuchiya, Akihiro) Degenerate double affine Hecke algebra and KZ-equation. (Japanese) **2000b:32032**
Barcelo, Hélène (*with* Ram, Arun) Combinatorial representation theory. (English summary) **2000j:05125**
Bizim, Osman *see* **Cangül, İsmail Naci**
Brenken, B. Hecke algebras and semigroup crossed product C^*-algebras. (English summary) **2000g:46071**
Bushnell, Colin J. (*with* Kutzko, Philip C.) Semisimple types in GL_n. (English summary) **2000i:20072**
Cangül, İsmail Naci (*with* Bizim, Osman) Construction of some finite classes of normal subgroups of Hecke groups.
Cherednik, Ivan From double Hecke algebra to analysis. (English summary) **2000b:33013**
Goodman, Frederick M. (*with* Wenzl, Hans) Iwahori-Hecke algebras of type A at roots of unity. **2000g:20084**
Green, R. M. Completions of cellular algebras. (English summary) **2000i:16065**
Kutzko, Philip C. *see* **Bushnell, Colin J., 2000i:20072**
Lambropoulou, Sofia Knot theory related to generalized and cyclotomic Hecke algebras of type B. **2000k:57011**
Losonczy, Jozsef Standard Young tableaux in the Weyl group setting. (English summary) **2000h:05232**
Mathas, Andrew Murphy operators and the centre of the Iwahori-Hecke algebras of type A. (English summary) **2000g:20023**
Ram, Arun *see* **Barcelo, Hélène, 2000j:05125**
Rouquier, Raphaël Weyl groups, affine Weyl groups and reflection groups. **2000g:20068**
Springer, Tonny A. Schubert varieties and generalizations. (English summary) **2000d:14053**
Suzuki, Takeshi *see* **Arakawa, Tomoyuki et al., 2000b:32032**
Tsuchiya, Akihiro *see* **Arakawa, Tomoyuki et al., 2000b:32032**
Wenzl, Hans *see* **Goodman, Frederick M., 2000g:20084**

20C10 Integral representations of finite groups

Cliff, Gerald (*with* Weiss, Alfred R.) Finite groups of matrices over group rings. (English summary) **2000c:20012**
Ksir, Amy E. A peculiar property of exceptional Weyl groups. (English summary) **2000h:20013**
Roggenkamp, Klaus W. From Dedekind's group determinant to the isomorphism problem. **2000h:20014**
Tu, Dao Yi (*with* Zhan, Yong) On π-quasinormal subgroups of finite groups. (Chinese. English and Chinese summaries)
Weiss, Alfred R. *see* **Cliff, Gerald, 2000c:20012**
Zhan, Yong *see* **Tu, Dao Yi**

Items with secondary classifications in 20C10

Bleher, Frauke M. (*with* Kimmerle, Wolfgang; Roggenkamp, Klaus W.; Wursthorn, Martin) Computational aspects of the isomorphism problem. **2000c:20007**
Kimmerle, Wolfgang *see* **Bleher, Frauke M. et al., 2000c:20007**
Kovács, L. G. (*with* Stöhr, Ralph) Module structure of the free Lie ring on three generators. (English summary) **2000h:17002**
Polcino Milies, César (*with* Sehgal, Sudarshan K.) Central units of integral group rings. (English summary) **2000i:16067**
Roggenkamp, Klaus W. The isomorphism problem for integral group rings. (English summary) **2000j:20006**
— *see also* **Bleher, Frauke M. et al., 2000c:20007**
Sehgal, Sudarshan K. *see* **Polcino Milies, César, 2000i:16067**
Sridharan, Ramaiyengar A complex irreducible representation of the quaternion group and a non-free projective module over the polynomial ring in two variables over the real quaternions. **2000f:16005**
Stöhr, Ralph *see* **Kovács, L. G., 2000h:17002**
Tiep, Pham Huu Globally irreducible lattices. (English summary) **2000i:11105**
— Globally irreducible representations of $\mathrm{SL}_3(q)$ and $\mathrm{SU}_3(q)$. (English summary) **2000a:20026**
Van Oystaeyen, Freddy (*with* Zalesskiĭ, A. E.) Finite groups over arithmetical rings and globally irreducible representations. (English summary) **2000b:20071**
Voskresenskiĭ, V. E. Birational invariants of integer representations. (Russian) **2000j:20088**
Wursthorn, Martin *see* **Bleher, Frauke M. et al., 2000c:20007**
Zalesskiĭ, A. E. *see* **Van Oystaeyen, Freddy, 2000b:20071**
Zimmermann, Alexander Tilted symmetric orders are symmetric orders. (English summary) **2000d:16024**

20C11 p-adic representations of finite groups

Items with secondary classifications in 20C11

Cassou-Noguès, Ph. (*with* Taylor, Martin J.) Opérations d'Adams et théorèmes de points fixes en K-théorie des algèbres de groupes. [Adams operations and fixed-point theorems in the K-theory of group algebras] **2000i:19004**
Fan, Yun (*with* Puig, Lluis) On blocks with nilpotent coefficient extensions. (English summary) **2000e:20019a**
— *see also* **Errata: "On blocks with nilpotent coefficient extensions", 2000e:20019b**

Hertweck, Martin (*with* Kimmerle, Wolfgang) On the F^*-theorem. **2000i:20006**
Kimmerle, Wolfgang *see* **Hertweck, Martin, 2000i:20006**
Notbohm, D. For which pseudo-reflection groups are the p-adic polynomial invariants again a polynomial algebra? (English summary) **2000a:13015**
— Erratum: "For which pseudo-reflection groups are the p-adic polynomial invariants again a polynomial algebra?" [J. Algebra **214** (1999), no. 2, 553–570; MR 2000a:13015]. **2000f:13009**
Puig, Lluis *see* **Fan, Yun, 2000e:20019a;2000e:20019b** *and* **Errata: "On blocks with nilpotent coefficient extensions", 2000e:20019b**
Taylor, Martin J. *see* **Cassou-Noguès, Ph., 2000i:19004**
Tu, Dao Yi (*with* Zhan, Yong) On π-quasinormal subgroups of finite groups. (Chinese. English and Chinese summaries)
Zhan, Yong *see* **Tu, Dao Yi**

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"On blocks with nilpotent coefficient extensions" Erratum: "On blocks with nilpotent coefficient extensions" [Algebr. Represent. Theory **1** (1998), no. 1, 27–73; MR 2000e:20019a] by Y. Fan and L. Puig. **2000e:20019b**

20C12 Integral representations of infinite groups

Kimmerle, Wolfgang On the normalizer problem. **2000c:20013**

20C15 Ordinary representations and characters

Arad, Zvi Homogeneous integral table algebras of degrees two, three and four with a faithful element. **2000i:20011**
Armeanu, Ion The structure of the groups all whose characters are rational valued on the odd order elements. (English summary) **2000j:20012**
Atsumi, Tsuyoshi A note on equalities in group algebras and character values. (*see* **2000a:00013**)
Behravesh, Houshang Quasi-permutation representations of metacyclic 2-groups with cyclic center. (English and Persian summaries) **2000h:20015**
— Quasi-permutation representations of metacyclic 2-groups. (English summary) **2000f:20006**
— Quasi-permutation representations of Suzuki group. (English summary) **2000c:20014**
Benyash-Krivets, V. V. Classes of characters in free groups with rank 2. (Russian. English and Russian summaries) **2000i:20012**
Berkovich, Yakov Some consequences of Maschke's theorem. (English summary) **2000b:20006**
— (*with* Kazarin, Lev S.) Finite groups in which the zeros of every nonlinear irreducible character are conjugate modulo its kernel. (English summary) **2000e:20011**
— Frattini like properties of kernels of some characters. (English summary) **2000g:20020**
— (*with* Isaacs, I. M.; Kazarin, Lev S.) Groups with distinct monolithic character degrees. **2000e:20012**
— *see also* **Kazarin, Lev S., 2000h:20018**
Boya Balet, Luis Joaquín (*with* Byrd, Mark) Clifford periodicity from finite groups. (English summary) **2000b:20007**
Breuer, Thomas Computing possible class fusions from character tables. (English summary) **2000c:20015**
Byrd, Mark *see* **Boya Balet, Luis Joaquín, 2000b:20007**
Can, Himmet On the inequivalence and standard basis of the Specht modules of the hyperoctahedral groups. (English summary) **2000m:20009**
Dade, Everett C. Counting characters of (ZT)-groups. **2000c:20016**
Elashvili, A. (*with* Jibladze, M.) "Hermite reciprocity" for semi-invariants in the regular representations of cyclic groups. (English and Georgian summaries) **2000g:20021**
Evdokimov, Sergei (*with* Ponomarenko, I. N.) Two inequalities for the parameters of a cellular algebra. (Russian. English and Russian summaries) **2000c:20017**
Faĭziev, Valeriĭ Pseudocharacters of a free group that are invariant with respect to its group of permutational automorphisms. (Russian. Russian summary) **2000m:20010**
Gagola, Stephen M., Jr. (*with* Lewis, Mark L.) A character-theoretic condition characterizing nilpotent groups. **2000a:20011**
Green, James A. Discrete series characters for $\mathrm{GL}(n, q)$. (English summary) **2000e:20013**
Gungormez, M. *see* **Karadayi, H. R., 2000d:20008**
Gyoja, Akihiko (*with* Nishiyama, Kyo; Taniguchi, Kenji) Kawanaka invariants for representations of Weyl groups. (English summary) **2000m:20011**
Hambleton, Ian (*with* Taylor, Laurence R.) Rational permutation modules for finite groups. **2000i:20013**
Hassan, Nabila Mohamed (*with* Horváth, Erzsébet) Dade's conjecture for the simple Higman-Sims group. (English summary) **2000h:20016**
Hill, Victor E., IV ★ Groups and characters. (English summary) **2000k:20006**
Horváth, Erzsébet *see* **Hassan, Nabila Mohamed, 2000h:20016**
Isaacs, I. M. (*with* Navarro, Gabriel; Wolf, Thomas R.) Finite group elements where no irreducible character vanishes. (English summary) **2000k:20008**
— Irreducible products of characters. **2000k:20007**
— *see also* **Berkovich, Yakov et al., 2000e:20012**
Jibladze, M. *see* **Elashvili, A., 2000g:20021**
Johnson, Kenneth W. (*with* Poimenidou, Eirini) Group characters and π-sharpness. (English summary) **2000h:20017**
Jöllenbeck, Armin Nichtkommutative Charaktertheorie der symmetrischen Gruppen. (English summary) [Noncommutative theory of characters of symmetric groups] **2000g:20022**
Karadayi, H. R. (*with* Gungormez, M.) Fundamental weights, permutation weights and Weyl character formula. (English summary) **2000d:20008**
Karpushkin, Vladimir Nikolaevich On the simplest representations of symmetry groups of regular polyhedra in $\mathbf{R}^3$. (Russian) **2000j:20013**
Kazarin, Lev S. (*with* Berkovich, Yakov) On Thompson's theorem. (English summary) **2000h:20018**
— *see also* **Berkovich, Yakov et al., 2000e:20011** *and* **2000e:20012**
Kiyota, Masao Squares of characters in finite groups. (*see* **2000a:20002**)
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20Dxx Abstract finite groups

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Besche, Hans Ulrich (*with* Eick, Bettina) Construction of finite groups. (English summary) **2000c:20001**
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Borovik, A. V. Tame groups of odd and even type. (English summary) **2000e:03109**
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Gagola, Stephen M., Jr. (*with* Lewis, Mark L.) A character-theoretic condition characterizing nilpotent groups. **2000a:20011**
Kantor, William M. (*with* Luks, Eugene M.; Mark, Peter D.) Sylow subgroups in parallel. (English summary) **2000e:20007**
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20D06 Simple groups: alternating groups and groups of Lie type [see also 20Gxx]

Frey, Darrin D. (*with* Griess, Robert L., Jr.) Conjugacy classes of elements in the Borovik group. (English summary) **2000a:20035**
Gentchev, Tsanko *see* **Gentcheva, Elenka**
Gentcheva, Elenka (*with* Gentchev, Tsanko) Factorizations of the groups $\Omega_7(q)$. (English summary)
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Huang, Ben Wen (*with* Yao, Yongqiao) Conjugate class of elements in A_6. (English summary)
Lübeck, Frank (*with* Malle, Gunter) (2, 3)-generation of exceptional groups. (English summary) **2000e:20030**
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Schaffer, Mark Twisted tensor product subgroups of finite classical groups. (English summary) **2000j:20024**
Yao, Yongqiao *see* **Huang, Ben Wen**
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Fang, Xin Gui (*with* Praeger, Cheryl E.) Finite two-arc transitive graphs admitting a Suzuki simple group. **2000e:05082**
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Fukshansky, Anna (*with* Wiedorn, Corinna) c-extensions of the Petersen geometry for M_{22}. **2000f:05089**
Griess, Robert L., Jr. Automorphisms of lattice type vertex operator algebras and variations, a survey. (English summary) (*see* **2000k:17001**)
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— (*with* Seitz, Gary M.) On finite subgroups of exceptional algebraic groups. (English summary) **2000j:20084**
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Parker, Christopher (*with* Rowley, Peter J.) Symplectic amalgams and extremal subgroups. (English summary) **2000h:20042**
Praeger, Cheryl E. *see* **Fang, Xin Gui, 2000e:05082** *and* **2000e:05083**
Previtali, Andrea Maps behaving like exponentials and maximal unipotent subgroups of groups of Lie type. (English summary) **2000c:20073**
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20D08 Simple groups: sporadic groups

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Baumeister, Barbara (*with* Ivanov, Aleksandr Anatol'evich; Pasechnik, D. V.) A characterization of the Petersen-type geometry of the McLaughlin group. (English summary) **2000j:20025**
Ching, Kenny Hyperbolic plane reflections and the Hall-Janko group. (English summary) **2000k:20017**
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Cuypers, Hans (*with* Soicher, Leonard H.; Sterk, Hans) The small Mathieu groups. **2000d:20018**
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Griess, Robert L., Jr. Pieces of eight: semiselfdual lattices and a new foundation for the theory of Conway and Mathieu groups. **2000m:20020**
Harada, Kōichirō Mathematics of the Monster. (Japanese) **2000e:20032**
Havas, George (*with* Sims, Charles C.) A presentation for the Lyons simple group. (English summary) **2000g:20030**
— *see also* **Gollan, Holger W., 2000g:20029**
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Hulpke, Alexander (*with* Linton, Steve) Construction of Co_3. An example of the use of an integrated system for computational group theory. **2000h:20028**
Ivanov, Aleksandr Anatol'evich ★ Geometry of sporadic groups. I. (English summary) **2000i:20028**
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— (*with* Meierfrankenfeld, U.) A computer-free construction of J_4. (English summary) **2000e:20033**
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Neumann, Anni *see* **AlAli, M. I. M. et al., 2000i:20027**
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Sawabe, Masato 2-radical subgroups of the Conway simple group Co_1. (*see* **2000a:20002**)
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— A combinatorial approach to the conjugacy classes of the Mathieu simple groups, M_{24}, M_{23}, M_{22}. (English summary) **2000d:20019**
— The 3-radicals of Co_1 and the 2-radicals of Rud. (English summary) **2000m:20021**
Shi, Wu Jie *see* **Mazurov, Viktor Danilovich, 2000a:20036**
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Bardoe, Matthew Kirby The universal embedding for the involution geometry of Co_1. (English summary) **2000h:51021**
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van Bon, John (*with* Cuypers, Hans) Affine extensions of near hexagons related to the spin module of type B_3. (English summary) **2000d:51016**
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— (*with* Leemans, Dimitri) On a geometry of Ivanov and Shpectorov for the O'Nan sporadic simple group. (English summary) **2000a:51014**
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Kantor, William M. (*with* Penttila, Tim) Reconstructing simple group actions. (English summary) **2000h:20008**
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Parker, Christopher (*with* Rowley, Peter J.) Symplectic amalgams and extremal subgroups. (English summary) **2000h:20042**
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Yoshiara, Satoshi Radical p-chains, chains of radical p-subgroups and collapsing. **2000e:20031**

20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [see also 20F17]

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Artemovich, O. D. Solvable groups with the minimality condition for nonhypercentral subgroups. (Ukrainian. English summary) **2000g:20031**
Asaad, M. (*with* Csörgő, P.) The influence of minimal subgroups on the structure of finite groups. (English summary) **2000f:20022**
Asiáin, M. J. Fitting classes and injectors. (English summary) **2000g:20032**
Ballester-Bolinches, A. (*with* Guo, Xiu Yun) On complemented subgroups of finite groups. (English summary) **2000a:20037**
— (*with* Pérez-Ramos, M. D.) On a question of L. A. Shemetkov. **2000j:20026**
— (*with* Guo, Xiu Yun) A note on the influence of minimal subgroups on the structure of finite groups. (English summary) **2000f:20023**
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Cossey, John (*with* Wang, Yanming) Remarks on the length of conjugacy classes of finite groups. (English summary) **2000g:20033**
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Dzharadin, Dzhekhad Elements of height 3 of the lattice of p-saturated formations. (Russian. English summary) **2000a:20038**
Feldman, Arnold Conditions for which Fischer F-subgroups in finite solvable groups are F-injectors. (English summary) **2000m:20022**
Fu, Shi Lu (*with* Wu, Chuan Zhi; Yan, Shang An) The normal index of a finite group. (Chinese. English and Chinese summaries)
Guo, Wen Bin Finite groups with the f-hypercentral condition for primary subgroups. (Russian. English summary) **2000b:20017**
— On ranks of classes of groups. (English summary) **2000h:20029**
— The groups generated by subnormal subgroups. (English summary) **2000a:20039**
— The influence of minimal subgroups on the structure of finite groups. (English summary) **2000b:20018**
— On the nilpotent length of finite soluble groups with given normalizers of Sylow subgroups. (English summary) **2000j:20027**
— (*with* Miao, Long) The influence of hypercenters of minimal subgroups on the structure of finite groups. (Chinese. English and Chinese summaries)
Guo, Xiu Yun *see* **Ballester-Bolinches, A., 2000a:20037** *and* **2000f:20023**
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Huppert, Bertram A remark on a theorem of J. G. Thompson. (English and Italian summaries) **2000a:20040**
Jiang, You Yi The solvability of finite groups having fewer than 20 elements of maximum order. (Chinese. English and Chinese summaries) **2000f:20024**
— Finite groups of some special T-types. (Chinese. English and Chinese summaries)
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Lu, Zai Ping (*with* Wang, Pin Chao) Finite groups some of whose subgroups are seminormal. (Chinese. English and Chinese summaries) **2000b:20019**
Lu, Zi Qun Character degrees and nilpotent lengths of finite solvable groups. (Chinese. English and Chinese summaries)
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Safonov, V. G. On multiply local formations of finite groups with bounded nilpotent defect. (Russian. English summary) **2000a:20041**
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Sorokina, M. M. On composition normally hereditary critical formations. (Russian. English summary) **2000b:20020**
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Zappa, Guido On finite groups whose Cipolla rank is one. (Italian. English and Italian summaries) **2000d:20020**
Zhang, Qinhai Finite groups with only s-quasinormal and abnormal subgroups. (English summary) **2000a:20042**
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Zhang, Zhirang π-$\mathcal{F}$-injectors in a class of finite π-separate groups. (English summary) **2000h:20032**
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Barry, Michael J. J. (*with* Ward, Michael B.) Two-transitive actions on conjugacy classes. (English summary) **2000e:20006**
Berkovich, Yakov Solvable permutation groups of maximal composition length. (English summary) **2000b:20003**
Besche, Hans Ulrich (*with* Eick, Bettina) Construction of finite groups. (English summary) **2000c:20001**
— (*with* Eick, Bettina) The groups of order at most 1000 except 512 and 768. (English summary) **2000c:20002**
Cazzola, Marina Partial character degrees and length of soluble groups: the p-length 1 case. **2000d:20013**
Cossey, John (*with* Wang, Yanming) Finite dinilpotent groups of small derived length. (English summary) **2000i:20036**
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Isaacs, I. M. (*with* Navarro, Gabriel; Wolf, Thomas R.) Finite group elements where no irreducible character vanishes. (English summary) **2000k:20008**
Navarro, Gabriel *see* **Isaacs, I. M. et al.**, **2000k:20008**
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20D15 Nilpotent groups, p-groups

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Chuang, F. C. *see* **How, Guan Aun**, **2000d:20021**
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Ellis, Graham (*with* Wiegold, James) A bound on the Schur multiplier of a prime-power group. (English summary) **2000i:20033**
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He, Li Guo Some properties of finite inner nilpotent groups. (Chinese. English and Chinese summaries)
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Lu, Ke Wei *see* **Xu, Feng[6]**
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Neumann, Anni Nilpotent injectors in finite groups. (*see* **2000g:20004**)
Newman, M. F. *see* **Evans-Riley, Susan et al.**, **2000b:20021**
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Silberberg, Gheorghe Central automorphisms of the minimal nonabelian p-groups. (English summary) **2000g:20036**
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Warren, Christine (*with* Wiegold, James) Generation of p-groups by elements of bounded breadth. **2000m:20027**
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Al'-Sharo, Kh. A. Some criteria for p-saturation of formations of finite groups. (Russian. English summary) **2000c:20031**
Bagiński, Czesław On the isomorphism problem for modular group algebras of elementary abelian-by-cyclic p-groups. (English summary) **2000j:20005**
Bang, Gui Ning *see* **Wei, Hua Quan**, **2000h:20031**
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Boston, Nigel (*with* Walker, Judy L.) 2-groups with few conjugacy classes. (English summary) **2000m:20045**
Cossey, John (*with* Wang, Yanming) Remarks on the length of conjugacy classes of finite groups. (English summary) **2000g:20033**
Gagola, Stephen M., Jr. (*with* Lewis, Mark L.) A character-theoretic condition characterizing nilpotent groups. **2000a:20011**
Guo, Wen Bin The influence of minimal subgroups on the structure of finite groups. (English summary) **2000b:20018**
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Khukhro, E. I. (*with* Shumyatsky, Pavel) Bounding the exponent of a finite group with automorphisms. **2000c:20039**
Lewis, Mark L. *see* **Gagola, Stephen M., Jr.**, **2000a:20011**
Mann, Avinoam Minimal characters of p-groups. **2000f:20007**
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Peterson, Gary Lee Split metacyclic p-groups that are A-E groups. (English summary) **2000j:16074**
Previtali, Andrea Maps behaving like exponentials and maximal unipotent subgroups of groups of Lie type. (English summary) **2000c:20073**
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Wei, Hua Quan (*with* Bang, Gui Ning) Some nilpotent subgroups and solvability. (Chinese. English and Chinese summaries) **2000h:20031**
Zel'manov, E. I. *see* **Vaughan-Lee, Michael**, **2000i:20053**

20D20 Sylow subgroups, Sylow properties, π-groups, π-structure

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Ballester-Bolinches, A. (*with* Shemetkov, L. A.) On normalizers of Sylow subgroups in finite groups. (Russian. Russian summary) **2000b:20022**
Berkovich, Yakov Subgroups with the character restriction property and related topics. (English summary) **2000d:20022**
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Dénes, J. New approaches to Hall Paige conjecture and some of its generalizations. (English summary)
Deng, Hui Wen A generalization of two split extension theorems. (English summary) **2000d:20023**
Guo, Xiu Yun *see* **Li, Deyu**, **2000f:20027**
Jiang, Hong Sheng Minimal non-φ Sylow tower groups. (Chinese. English and Chinese summaries) **2000f:20026**
Li, Cai Heng (*with* Wang, Jie[3]) Finite groups acting 2-transitively on their Sylow subgroups. (Chinese. English and Chinese summaries) **2000b:20023**
— (*with* Wang, Jie[3]) Finite groups acting 2-transitively on their Sylow subgroups. (English summary) **2000j:20029**
Li, Deyu (*with* Guo, Xiu Yun) The influence of c-normality of subgroups on the structure of finite groups. II. (English summary) **2000f:20027**
Shemetkov, L. A. *see* **Ballester-Bolinches, A.**, **2000b:20022**
Tang, Yao (*with* Bai, Shu Wei) The properties of finite groups with a Sylow tower. (Chinese. English and Chinese summaries)
Wang, Jie[3] *see* **Li, Cai Heng**, **2000b:20023** *and* **2000j:20029**
Zhang, Wei Systems of π-solvable saturated groups. (Chinese. English and Chinese summaries)
Zhou, Sheng Lin A necessary and sufficient condition for a group to be π-solvable. (Chinese. English and Chinese summaries)

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Bodnarchuk, Yu. V. (*with* Lavrenyuk, Ya. V.) The automorphism group of a normalizer of the Sylow p-subgroup of the symmetric group S_{p^n}. (Ukrainian. English summary) **2000i:20057**
Choi, Eunmi Transfer theorems for finite groups. (English summary) **2000e:20082**

Deng, Hui Wen The number of elements of type pq in the set of element orders and group structure. (English summary) **2000h:20050**
Guo, Xiu Yun *see* **Ballester-Bolinches, A., 2000a:20037**
Hagita, Mariko Foldings of difference sets in abelian groups. (English summary) **2000g:05033**
Hu, Jun Min *see* **Wei, Hua Quan, 2000g:20034**
Jiang, Jiu Liang Two results on n-solvable groups and n-nilpotent groups. (Chinese. English and Chinese summaries) **2000c:20056**
Kammüller, Florian (*with* Paulson, Lawrence C.) A formal proof of Sylow's theorem. An experiment in abstract algebra with Isabelle HOL. (English summary) **2000j:68166**
Kantor, William M. (*with* Luks, Eugene M.; Mark, Peter D.) Sylow subgroups in parallel. (English summary) **2000e:20007**
Lavrenyuk, Ya. V. *see* **Bodnarchuk, Yu. V., 2000i:20057**
Li, Xiuling (*with* Zhao, Yaoqing) Theta subgroups and the solvability of finite groups. (English summary) **2000e:20035**
Luks, Eugene M. *see* **Kantor, William M. et al., 2000e:20007**
Mainardis, Mario Finite groups whose poset of conjugacy classes of subgroups is isomorphic to the one of an abelian group. (Italian summary) **2000c:20036**
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Mazurov, Viktor Danilovich (*with* Shi, Wu Jie) Groups whose elements have given orders. **2000h:20037**
Muzychuk, Mikhail On Sylow subgraphs of vertex-transitive self-complementary graphs. (English summary) **2000i:05093**
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Petechuk, V. M. Linear p-groups over fields. (Ukrainian. English summary) **2000a:20101**
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Shi, Wu Jie Finite groups defined by the sets of their element orders. (English summary) **2000e:20038**
— *see also* **Mazurov, Viktor Danilovich, 2000h:20037**
Wei, Hua Quan (*with* Hu, Jun Min) π_σ-nilpotent subgroups and solvability. (Chinese. English and Chinese summaries) **2000g:20034**
Zhang, Zhirang π-$\mathcal{F}$-injectors in a class of finite π-separate groups. (English summary) **2000h:20032**
Zhao, Yaoqing On the Deskins completions, theta pairs and theta completions for maximal subgroups. (English summary) **2000k:20030**
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20D25 Special subgroups (Frattini, Fitting, etc.)

Ashrafi, Ali Reza On the number of minimal and maximal subgroups of a finite group. (English summary) **2000d:20024**
Deng, Hui Wen Inner E_π^*-groups. (English summary) **2000b:20024**
Dovzhenko, S. A. On a theorem of N. V. Chernikov on completely factorizable groups. (Russian. English and Ukrainian summaries) **2000h:20034**
Kappe, Luise-Charlotte (*with* Kirtland, Joseph) Some analogues of the Frattini subgroup. (English summary) **2000b:20025**
Kirtland, Joseph *see* **Kappe, Luise-Charlotte, 2000b:20025**
Li, Xiuling (*with* Zhao, Yaoqing) Theta subgroups and the solvability of finite groups. (English summary) **2000e:20035**
Mousavi, H. On finite groups with few non-normal subgroups. (English summary) **2000f:20028**
Mysovskikh, V. I. Testing subgroups of a finite group on embedding properties like pronormality. (Russian. English and Russian summaries) **2000k:20020**
Wu, Dawei (*with* Zhang, Yongkang) π-Frattini subgroups and its extend. (English summary)
Zhang, Yongkang *see* **Wu, Dawei**
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Ballester-Bolinches, A. (*with* Guo, Xiu Yun) A note on the influence of minimal subgroups on the structure of finite groups. (English summary) **2000f:20023**
Berkovich, Yakov Frattini like properties of kernels of some characters. (English summary) **2000g:20020**
Choi, Eunmi Transfer theorems for finite groups. (English summary) **2000e:20082**
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Iranzo, M. J. (*with* Medina, J.; Pérez-Monasor, F.) Product of nilpotent subgroups. (English summary) **2000m:20024**
Medina, J. *see* **Iranzo, M. J. et al., 2000m:20024**
Neumann, Anni *see* **AlAli, M. I. M. et al., 2000i:20027**
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Rosenberger, Gerhard *see* **Fine, Benjamin L. et al., 2000h:20046**
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Zhang, Qinhai On self-normality and abnormality in the alternating group A_p. (English summary) **2000c:20030**
Zhang, Zhirang π-$\mathcal{F}$-injectors in a class of finite π-separate groups. (English summary) **2000h:20032**

20D30 Series and lattices of subgroups

Baddeley, Robert A new approach to the finite lattice representation problem. (English summary) **2000c:20035**
Bagiński, Czesław (*with* Sakowicz, A.) Finite groups with globally permutable lattice of subgroups. (English summary) **2000m:20028**
Mainardis, Mario Finite groups whose poset of conjugacy classes of subgroups is isomorphic to the one of an abelian group. (Italian summary) **2000c:20036**
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Börner, Ferdinand A remark on the finite lattice representation problem. (English summary) **2000e:08004**
Brown, Kenneth S. The coset poset and probabilistic zeta function of a finite group. (English summary) **2000k:20082**
Hulpke, Alexander Computing subgroups invariant under a set of automorphisms. (English summary) **2000a:20001**
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20D35 Subnormal subgroups

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Pang, Sulin *see* **Li, Shi Rong, 2000d:20025**
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Gómez-Fernández, M. On p-pronormal subgroups of finite p-soluble groups. **2000j:20028**

20D40 Products of subgroups

Amberg, Bernhard (*with* Sysak, Yaroslav P.) Radical rings and products of groups. **2000j:20030**
— (*with* Kazarin, Lev S.) On the rank of a product of two finite p-groups and nilpotent p-algebras. **2000f:20029**
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— (*with* Pedraza-Aguilera, M. C.) Mutually permutable products of finite groups. II. **2000h:20035**
— (*with* Pedraza-Aguilera, M. C.) On finite soluble products of $\mathcal{N}$-connected groups. **2000d:20026**
Carocca, Angel (*with* Maier, Rudolf) Theorems of Kegel-Wielandt type. **2000j:20031**
Cossey, John (*with* Wang, Yanming) Finite dinilpotent groups of small derived length. (English summary) **2000i:20036**
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Maier, Rudolf *see* **Carocca, Angel, 2000j:20031**
McCann, Brendan On p-groups which are the product of a finite extra-special group and a nilpotent group of class two. **2000d:20027**
Migliorini, Franco (*with* Moscadelli, Serena) A proof of a conjecture on the abelian times cyclic finite groups. (English summary) **2000h:20036**
Moscadelli, Serena On the abelian times cyclic factorizable finite groups. (English summary) **2000f:20031**
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Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A. et al., 2000d:20026**;**2000f:20030** *and* **2000h:20035**
Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A. et al., 2000f:20030**
Ramadan, Mohamed The influence of quasinormality of some subgroups of prime power order on the structure of finite groups. (English and Arabic summaries) **2000g:20037**
Semko, N. N. On the structure of CDN-groups with an elementary commutant of rank two. (Ukrainian. English and Ukrainian summaries) **2000a:20047**
Sysak, Yaroslav P. *see* **Amberg, Bernhard, 2000j:20030**
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Ballester-Bolinches, A. (*with* Pérez-Ramos, M. D.; Pedraza-Aguilera, M. C.) Totally and mutually permutable products of finite groups. **2000h:20068**
Bang, Gui Ning *see* **Wei, Hua Quan, 2000h:20031**
Beidleman, J. (*with* Heineken, Hermann) Totally permutable torsion subgroups. (English summary) **2000k:20043**
Erdős, Paul[1] (*with* Pálfy, Péter Pál) On the orders of directly indecomposable groups. (English summary) **2000e:20037**
Fray, R. L. On the product of two normal subgroups of a group. (English summary) **2000k:20044**
Gentchev, Tsanko *see* **Gentcheva, Elenka**
Gentcheva, Elenka (*with* Gentchev, Tsanko) Factorizations of the groups $\Omega_7(q)$. (English summary)
Heineken, Hermann *see* **Beidleman, J., 2000k:20043**
Höfling, Burkhard Subgroups of locally finite products of locally nilpotent groups. (English summary) **2000j:20059**
Iranzo, M. J. (*with* Medina, J.; Pérez-Monasor, F.) Product of nilpotent subgroups. (English summary) **2000m:20024**
Medina, J. *see* **Iranzo, M. J. et al., 2000m:20024**
Pálfy, Péter Pál *see* **Erdős, Paul**[1], **2000e:20037**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A. et al., 2000h:20068**

Pérez-Monasor, F. *see* **Iranzo, M. J. et al., 2000m:20024**
Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A. et al., 2000h:20068**
Wei, Hua Quan (*with* Bang, Gui Ning) Some nilpotent subgroups and solvability. (Chinese. English and Chinese summaries) **2000h:20031**
Zhang, Qinhai s-semipermutability and abnormality in finite groups. (English summary) **2000g:20035**

20D45 Automorphisms

Brandl, Rolf (*with* Deaconescu, Marian) Finite groups with small automizers of their nonabelian subgroups. **2000c:20038**
Deaconescu, Marian *see* **Brandl, Rolf, 2000c:20038**
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Garist, Yu. È. (*with* Garist, V. È.; Pal′chik, È. M.) On finite groups that admit a coprime automorphism with a nilpotent stabilizer. (Russian. English and Russian summaries) **2000i:20037**
— (*with* Pal′chik, È. M.) On finite groups that admit a coprime automorphism. (Russian. English and Russian summaries) **2000j:20032**
Khukhro, E. I. (*with* Shumyatsky, Pavel) Bounding the exponent of a finite group with automorphisms. **2000c:20039**
Li, Shiyu (*with* Zhang, Jingsong) On inner π'-closed groups with operator groups. (English summary) **2000e:20036**
Pal′chik, È. M. *see* **Garist, Yu. È. et al., 2000i:20037** *and* **2000j:20032**
Shumyatsky, Pavel Exponent of a finite group with an involutory automorphism. (English summary) **2000j:20033**
— *see also* **Khukhro, E. I., 2000c:20039**
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Brandl, Rolf (*with* Corsi Tani, G.) Wreath products with a supersoluble automorphism group. (English summary) **2000d:20050**
Corsi Tani, G. *see* **Brandl, Rolf, 2000d:20050**
MacHale, D. (*with* Sheehy, R.) Finite groups with odd order automorphism groups. (English summary) **2000a:20045**
Morigi, Marta Power automorphisms of finite p-groups. **2000i:20035**
Peterson, Gary Lee Split metacyclic p-groups that are A-E groups. (English summary) **2000j:16074**
Sheehy, R. *see* **MacHale, D., 2000a:20045**
Silberberg, Gheorghe Central automorphisms of the minimal nonabelian p-groups. (English summary) **2000g:20036**

20D60 Arithmetic and combinatorial problems

Arad, Zvi (*with* Muzychuk, Mikhail) Order evaluation of products of subsets in finite groups and its application for the estimation of the covering number of conjugacy classes. (*see* **2000k:20003**)
Ashrafi, Ali Reza On the n-sum groups $n = 6, 7$. (English summary) **2000d:20028**
Berkovich, Yakov The degree and index of a finite group. **2000c:20040**
Breuer, Florian Ducci sequences over abelian groups. **2000j:20034**
Chou, Wun-Seng (*with* Shiue, Peter Jau-Shyong) On the group of line crossings on the 2-D torus. (English summary)
Deng, Hui Wen (*with* Shi, Wu Jie) The characterization of Ree groups ${}^2F_4(q)$ by their element orders. (English summary) **2000i:20038**
Erdős, Paul[1] (*with* Pálfy, Péter Pál) On the orders of directly indecomposable groups. (English summary) **2000e:20037**
Herzog, Marcel Covering numbers for groups. (*see* **2000g:20003**)
Lipschutz, Seymour (*with* Shi, Wu Jie) Finite groups whose element orders do not exceed twenty. (English summary) **2000m:20029**
Lucido, Maria Silvia The diameter of the prime graph of a finite group. (English summary) **2000b:20026**
Mazurov, Viktor Danilovich Recognition of finite groups by a set of orders of their elements. (Russian. Russian summary) **2000b:20027**
— (*with* Shi, Wu Jie) Groups whose elements have given orders. **2000h:20037**
Muzychuk, Mikhail *see* **Arad, Zvi, (2000k:20003)**
Pálfy, Péter Pál *see* **Erdős, Paul[1], 2000e:20037**
Shi, Wu Jie Finite groups defined by the sets of their element orders. (English summary) **2000e:20038**
— (*with* Xiao, Yunrui) Quotient of the group order and the number of conjugacy classes. (English summary) **2000a:20048**
— *see also* **Mazurov, Viktor Danilovich, 2000h:20037**;**Deng, Hui Wen, 2000i:20038** *and* **Lipschutz, Seymour, 2000m:20029**
Shiue, Peter Jau-Shyong *see* **Chou, Wun-Seng**
Talukdar, Dwiraj The notions of the Smarandache group and the Smarandache Boolean ring. (English summary)
Terr, David C. A modification of Shanks' baby-step giant-step algorithm. (English summary) **2000i:20039**
Wei, Guimin Enumeration formulae for the number of finite groups and their applications. (English summary) **2000c:20041**
Xiao, Yunrui *see* **Shi, Wu Jie, 2000a:20048**

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Amin, Khalid The Hajós factorization of elementary 3-groups. (English summary) **2000k:20069**
Bianchi, Mariagrazia (*with* Gillio Berta Mauri, Anna; Verardi, Libero) Counting squares of n-subsets in finite groups. (English summary) **2000f:05003**
Brown, Kenneth S. The coset poset and probabilistic zeta function of a finite group. (English summary) **2000k:20082**
Cao, Zhen Fu $S(2, 3, 5, 7, 11)$ and simple K_N-groups. (Chinese. English and Chinese summaries) **2000a:20034**
Chen, Guiyun A new characterization of $\mathrm{PSL}_2(q)$. (English summary) **2000d:20017**
Corrádi, Keresztély (*with* Sands, Arthur D.; Szabó, Sándor) Factoring by simulated subsets. II. (English summary) **2000k:20070**
Evdokimov, Sergei *see* **Vershik, Anatoliĭ Moiseevich et al., 2000d:46068**
Gillio Berta Mauri, Anna *see* **Bianchi, Mariagrazia et al., 2000f:05003**
Hamidoune, Yahya Ould (*with* Ordaz, Oscar; Ortuño, Asdrubal) On a combinatorial theorem of Erdős, Ginzburg and Ziv. (English summary) **2000c:05146**
Jiang, You Yi The solvability of finite groups having fewer than 20 elements of maximum order. (Chinese. English and Chinese summaries) **2000f:20024**
Jungnickel, Dieter On small congruence covers. (English summary) **2000k:05076**
Khodkar, Abdollah *see* **Adams, Peter, 2000k:05054**
Li, Jiong Sheng (*with* Wang, Ping[1]) On the normality of Cayley digraphs of valency 2 on nonabelian groups of odd square free order. (English summary) **2000m:05114**
Ordaz, Oscar *see* **Hamidoune, Yahya Ould et al., 2000c:05146**
Ortuño, Asdrubal *see* **Hamidoune, Yahya Ould et al., 2000c:05146**
Ponomarenko, I. N. *see* **Vershik, Anatoliĭ Moiseevich et al., 2000d:46068**
Sands, Arthur D. *see* **Corrádi, Keresztély et al., 2000k:20070**
Sawabe, Masato A combinatorial approach to the conjugacy classes of the Mathieu simple groups, M_{24}, M_{23}, M_{22}. (English summary) **2000d:20019**
Szabó, Sándor *see* **Corrádi, Keresztély et al., 2000k:20070**
Takegahara, Yugen On the Frobenius numbers of symmetric groups. **2000m:20002**
Verardi, Libero *see* **Bianchi, Mariagrazia et al., 2000f:05003**
Vershik, Anatoliĭ Moiseevich (*with* Evdokimov, Sergei; Ponomarenko, I. N.) Algebras in Plancherel duality, and algebraic combinatorics. (Russian. Russian summary) **2000d:46068**
Wan, Zhaoze On $(4p^2q^{2b}, 2p^2q^{2b} - pq^b, p^2q^{2b} - pq^b)$ Menon difference sets. (English summary) **2000c:05028**
Wang, Ping[1] *see* **Li, Jiong Sheng, 2000m:05114**
Zhang, Jiping Character degrees of finite solvable groups. (English summary) **2000h:20020**

20D99 None of the above, but in this section

Bai, Shu Wei *see* **He, Li Guo**
Batagelj, Vladimir Norms and distances over finite groups. (English summary)
Deng, Hui Wen The number of composite numbers in the set of element orders of a finite group. (English summary) **2000e:20039**
Drápal, Aleš On distances of multiplication tables of groups. (English summary) **2000h:20038**
Fong, Yuen (*with* Wang, Chiou-Shing) On infra-endomorphisms of infra-simple groups. (English summary) **2000a:20049**
He, Li Guo (*with* Bai, Shu Wei) Some sufficient conditions for a group to be a finite M-group. (Chinese. English and Chinese summaries)
He, Qing[3] (*with* Li, Hong Xing) Representations of power groups and isomorphic upgrade of power groups. (Chinese. English and Chinese summaries)
Ito, Noboru Some results on Hadamard groups. II. (English summary) (*see* **2000k:20002**)
Li, Cai Heng On finite groups with the Cayley isomorphism property. II. (English summary) **2000m:20030**
Li, Hong Xing *see* **He, Qing[3]**
Li, Shi Rong (*with* Zhao, Yaoqing) The Deskins index complex and the solvability of finite groups. (English summary) **2000c:20042**
Mann, Avinoam A note on conjugacy class sizes. (English summary) **2000a:20050**
Mysovskikh, V. I. Burnside marks and a solution of two problems of Z. I. Borevich on polynormal subgroups. (Russian)
Rinaldi, Simone On the set-decomposition of finite groups. (English summary) **2000k:20021**
Vojtěchovský, Petr Distances of groups of prime order. **2000e:20040**
Wang, Chiou-Shing *see* **Fong, Yuen, 2000a:20049**
Zhao, Yaoqing *see* **Li, Shi Rong, 2000c:20042**

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Bali, Jyoti (*with* Rajan, B. Sundar) Block-coded PSK modulation using two-level group codes over dihedral groups. (English summary) **2000e:94048**
Black, Sarah Asymptotic growth of finite groups. (English summary) **2000a:20067**
Burgess, D. R. B. Critical sets for the quaternion group. (English summary) **2000f:05016**
Hagita, Mariko Difference sets in generalized quaternion groups. (English summary) **2000b:05027**
Mel′nikov, Yu. B.[2] On the representation of the semigroup of endomorphisms of a finite group on its group algebra. (Russian. Russian summary) **2000e:20117**
Rajan, B. Sundar *see* **Bali, Jyoti, 2000e:94048**

20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

Burns, R. G. (*with* Kam, S.-M.) On the intersection of double cosets in free groups, with an application to amalgamated products. (English summary) **2000a:20051**
Dehornoy, Patrick A conjecture about conjugacy in free groups. (English summary) **2000m:20031**
Fine, Benjamin L. (*with* Rosenberger, Gerhard; Spellman, Dennis; Stille, Michael) Test, generic and almost primitive elements in free groups. (English summary) **2000b:20028**
— (*with* Rosenberger, Gerhard; Spellman, Dennis; Stille, Michael) Test words, generic elements and almost primitivity. (English summary) **2000j:20035**
Goldstein, R. Z. The length and thickness of words in a free group. (English summary) **2000a:20052**

González-Acuña, Francisco (*with* Ramírez, Arturo) A composition formula in the rank two free group. **2000a:20053**
Hatcher, Allen (*with* Vogtmann, Karen) Cerf theory for graphs. (English summary) **2000e:20041**
Helling, Heinz A note on the automorphism group of the rank two free group. **2000m:20032**
Herwig, Bernhard (*with* Lascar, Daniel) Extending partial automorphisms and the profinite topology on free groups. (English summary) **2000j:20036**
Ivanov, Sergei Vladimir (*with* Schupp, Paul E.) A remark on finitely generated subgroups of free groups. (English summary) **2000m:20033**
Kam, S.-M. *see* **Burns, R. G., 2000a:20051**
Koubi, Malik On exponential growth rates for free groups. (English summary) **2000e:20042**
Lascar, Daniel *see* **Herwig, Bernhard, 2000j:20036**
Odoni, R. W. K. Some Diophantine problems arising from the theory of cyclically-presented groups. (English summary) **2000f:20032**
Oliĭnyk, A. S. Free groups of automatic permutations. (Ukrainian. English summary) **2000e:20043**
Ono, Takashi (*with* Wada, Hideo) "Hasse principle" for free groups. **2000b:20029**
Ramírez, Arturo *see* **González-Acuña, Francisco, 2000a:20053**
Rosenberger, Gerhard *see* **Fine, Benjamin L. et al., 2000b:20028** *and* **2000j:20035**
Satô, Kenzi A free group acting on $\mathbf{Z}^2$ without fixed points. (English summary) **2000k:20022**
Schupp, Paul E. *see* **Ivanov, Sergei Vladimir, 2000m:20033**
Spellman, Dennis *see* **Fine, Benjamin L. et al., 2000b:20028** *and* **2000j:20035**
Stille, Michael *see* **Fine, Benjamin L. et al., 2000b:20028** *and* **2000j:20035**
Tipp, Ulrich On groups acting freely on a tree. (English summary) **2000c:20043**
Todorinov, S. A. Free metabelian groups are not fully right-orderable groups.
Vogtmann, Karen *see* **Hatcher, Allen, 2000e:20041**
Wada, Hideo *see* **Ono, Takashi, 2000b:20029**
Wen, Zhi Xiong (*with* Wen, Zhi Ying) A characterization of invertible trace maps associated with a substitution. (English summary) **2000d:20029**
Wen, Zhi Ying *see* **Wen, Zhi Xiong, 2000d:20029**
Zubkov, A. N. On a matrix representation of a free group. (Russian. Russian summary) **2000d:20030**

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Ballmann, Werner (*with* Świątkowski, Jacek) On groups acting on nonpositively curved cubical complexes. (English summary) **2000m:20036**
Chiswell, I. M. Non-standard free groups. **2000f:03110**
Cohen, Marshall M. (*with* Lustig, Martin) The conjugacy problem for Dehn twist automorphisms of free groups. (English summary) **2000c:20058**
Faĭziev, Valeriĭ Pseudocharacters of a free group that are invariant with respect to its group of permutational automorphisms. (Russian. Russian summary) **2000m:20010**
Gonçalves, Jairo Z. (*with* Mandel, Arnaldo; Shirvani, Mazi) Free products of units in algebras. I. Quaternion algebras. (English summary) **2000e:16021**
Gupta, Chander Kanta (*with* Noskov, G. A.) On the genus of certain metabelian groups. (English summary) **2000a:20096**
Herfort, W. N. (*with* Ribes, Luis; Zalesskiĭ, P. A.) p-extensions of free pro-p groups. (English summary) **2000a:20062**
Jarden, Moshe (*with* Lubotzky, Alexander) Random normal subgroups of free profinite groups. **2000h:20047**
Liu, Guoyang (*with* Robertson, Lewis C.) Free groups and free products in $SL_2(\mathbf{Z})$. (English summary) **2000b:20031**
Lubotzky, Alexander *see* **Jarden, Moshe, 2000h:20047**
Lustig, Martin *see* **Cohen, Marshall M., 2000c:20058**
Mandel, Arnaldo *see* **Gonçalves, Jairo Z. et al., 2000e:16021**
Ng, Che Tat Jensen's functional equation on groups. II. (English summary) **2000j:39022**
Noskov, G. A. *see* **Gupta, Chander Kanta, 2000a:20096**
Osin, D. V. On the generating set's growth function for subgroups of free groups. (English summary) **2000f:20034**
Pfander, Patrick H. Finitely generated subgroups of the free $\mathbf{Z}[t]$-group on two generators. (English summary) **2000f:03112**
Potapchik, A. (*with* Rapinchuk, A.) Low-dimensional linear representations of Aut F_n, $n \geq 3$. (English summary) **2000j:20015**
Rapinchuk, A. *see* **Potapchik, A., 2000j:20015**
Reutenauer, Christophe Malcev-Neumann series and the free field. (English summary) **2000j:16018**
Ribes, Luis *see* **Herfort, W. N. et al., 2000a:20062**
Robertson, Lewis C. *see* **Liu, Guoyang, 2000b:20031**
Rosenmann, Amnon When Schreier transversals grow wild. **2000j:20041**
Shirvani, Mazi *see* **Gonçalves, Jairo Z. et al., 2000e:16021**
Shpilrain, Vladimir Automorphisms of one-relator groups. (English summary) **2000a:20085**
Sury, B. On triangular representations of Aut(F_r). (English summary) **2000m:20016**
Świątkowski, Jacek *see* **Ballmann, Werner, 2000m:20036**
Zalesskiĭ, P. A. *see* **Herfort, W. N. et al., 2000a:20062**

20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

Allenby, R. B. J. T. Some remarks on the upper Frattini subgroup of a generalized free product. (English summary) **2000j:20037**
Azarov, D. N. On the residual nilpotence of free products of free groups with cyclic amalgamation. (Russian. Russian summary) **2000g:20038**
Barnea, Y. (*with* Larsen, Michael J.) A non-abelian free pro-p group is not linear over a local field. (English summary) **2000d:20031**
Benyash-Krivets, V. V. On the decomposability of some F-groups into an amalgamated free product. (Russian. English and Russian summaries) **2000a:20054**
— On the decomposition of generalized triangular groups into an amalgamated free product. (Russian) **2000i:20040**
Dobrynina, I. V. On the question of width in an amalgamated free product. (Russian. English and Russian summaries)
Dunwoody, M. J. (*with* Jones, J. Mary) A group with very strange decomposition properties. (English summary) **2000h:20039**
Ershov, Yurīĭ Leonidovich On a theorem of Kurosh. (Russian. Russian summary) **2000b:20030**
Fine, Benjamin L. (*with* Peluso, Ada) Amalgam decompositions for one-relator groups. (English summary) **2000h:20040**
Ivanov, Sergei Vladimir On the intersection of finitely generated subgroups in free products of groups. (English summary) **2000k:20023**
Jones, J. Mary *see* **Dunwoody, M. J., 2000h:20039**
Kim, Goansu Conjugacy separability of free products with amalgamation. (English summary) **2000a:20055**
— (*with* Tang, Francis C. Y.) Conjugacy separability of generalized free products of finite extensions of residually nilpotent groups. **2000m:20034**
— (*with* Tang, Francis C. Y.) A criterion for the conjugacy separability of certain HNN extensions of groups. (English summary) **2000k:20024**
Larsen, Michael J. *see* **Barnea, Y., 2000d:20031**
Lipschutz, Seymour On pregroups and generalizations. (English summary) **2000h:20041**
Liu, Guoyang (*with* Robertson, Lewis C.) Free groups and free products in $SL_2(\mathbf{Z})$. (English summary) **2000b:20031**
Loginova, E. D. Residual finiteness of the free product of two groups with commuting subgroups. (Russian. Russian summary) **2000e:20044**
Mazurok, O. O. Groups with a commutant of order $p \cdot q \cdot r$. (Ukrainian. English summary) **2000g:20039**
Moon, Myoungho Normal subgroups of groups which split over the infinite cyclic group. (English summary) **2000k:20025**
— Schreier theorem on groups which split over free abelian groups. (English summary) **2000m:20035**
Pankrat'ev, A. E. Hyperbolic products of groups. (Russian. Russian summary) **2000f:20033**
Parker, Christopher (*with* Rowley, Peter J.) Symplectic amalgams and extremal subgroups. (English summary) **2000h:20042**
Peluso, Ada *see* **Fine, Benjamin L., 2000h:20040**
Robertson, Lewis C. *see* **Liu, Guoyang, 2000b:20031**
Rowley, Peter J. *see* **Parker, Christopher, 2000h:20042**
Tang, Chiew Khiam *see* **Wong, P. C., 2000d:20032** *and* **2000d:20033**
Tang, Francis C. Y. *see* **Kim, Goansu, 2000k:20024** *and* **2000m:20034**
Usenko, V. M. Normal closures in free products, and the Kervaire-Laudenbach problem. (Ukrainian. English summary) **2000e:20045**
Wong, P. C. (*with* Tang, Chiew Khiam) Conjugacy separability of certain HNN extensions. (English summary) **2000d:20032**
— (*with* Tang, Chiew Khiam) Cyclic subgroup separability of certain HNN extensions of finitely generated abelian groups. (English summary) **2000d:20033**

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bin Ahmad, Abd Ghafur The unsolvability of efficiency for groups. (English summary) **2000e:20059**
Balogun, B. O. Idempotents in the C^*-algebras of free products of groups with amalgamation. (English summary) **2000a:46090**
Batty, Michael A splitting theorem for groups acting on quasi-trees. (English summary) **2000j:20042**
Baumslag, Gilbert Some open problems. **2000a:20071**
Bieri, Robert (*with* Geoghegan, Ross) Kernels of actions on non-positively curved spaces. **2000i:20083**
Burns, R. G. (*with* Kam, S.-M.) On the intersection of double cosets in free groups, with an application to amalgamated products. (English summary) **2000a:20051**
Dixon, Martyn R. *see* **Shin, Hyunyong et al., 2000m:16046**
Dunwoody, M. J. (*with* Sageev, Michah) JSJ-splittings for finitely presented groups over slender groups. (English summary) **2000b:20050**
Feighn, Mark (*with* Handel, Michael) Mapping tori of free group automorphisms are coherent. (English summary) **2000i:20050**
Fenn, Roger (*with* Rourke, Colin) Characterisation of a class of equations with solutions over torsion-free groups. (English summary) **2000b:20035**
Fine, Benjamin L. (*with* Rosenberger, Gerhard; Spellman, Dennis; Stille, Michael) Test, generic and almost primitive elements in free groups. (English summary) **2000b:20028**
— (*with* Rosenberger, Gerhard; Spellman, Dennis; Stille, Michael) Test words, generic elements and almost primitivity. (English summary) **2000j:20035**
Fujiwara, Koji The second bounded cohomology of an amalgamated free product of groups. (English summary) **2000j:20098**
Geoghegan, Ross *see* **Bieri, Robert, 2000i:20083**
Gitik, Rita Ping-pong on negatively curved groups. **2000e:20070**
Gupta, Chander Kanta (*with* Romanovskiĭ, N. S.) Finitely generated subgroups and the centre of some factor groups of free products. (English summary) **2000h:20051**
Handel, Michael *see* **Feighn, Mark, 2000i:20050**
Herfort, W. N. (*with* Zalesskiĭ, P. A.) Cyclic extensions of free pro-p groups. (English summary) **2000c:20046**
Howie, James Minimal Seifert manifolds for higher ribbon knots. (English summary) **2000a:57062**
Kam, S.-M. *see* **Burns, R. G., 2000a:20051**
Kapovich, Ilya (*with* Weidmann, Richard) On the structure of two-generated hyperbolic groups. (English summary) **2000f:20068**
Kim, Goansu (*with* Tang, Francis C. Y.) Cyclic subgroup separability of HNN-extensions with cyclic associated subgroups. (English summary) **2000f:20043**
Kuksov, Dmitri Cogrowth series of free products of finite and free groups. **2000g:20076**
Limanskiĭ, V. V. Free operations on locally finite varieties of groups. (Russian) **2000j:20046**
Lyou, Ikseung *see* **Shin, Hyunyong et al., 2000m:16046**
Martino, Armando An index theorem for automorphisms of free products. **2000f:20047**

Meakin, John C. Semigroup amalgams: algorithmic questions and structure. (English summary) (*see* **2000k:20003**)
Mel'nikov, O. V. On free products of absolute Galois groups. (Russian. Russian summary) **2000c:12009**
Metaftsis, V. An algorithm for stem products and one-relator groups. (English summary) **2000d:20042**
Niblo, Graham A. Double coset decompositions of groups. (English summary) **2000i:20046**
Pettet, Martin R. The automorphism group of a graph product of groups. (English summary) **2000i:20058**
Raptis, E. (*with* Varsos, D.) On the automorphism group of the fundamental group of a graph of polycyclic groups. (English summary) **2000b:20045**
Romanovskiĭ, N. S. *see* **Gupta, Chander Kanta**, **2000h:20051**
Rosenberger, Gerhard *see* **Fine, Benjamin L. et al.**, **2000b:20028** *and* **2000j:20035**
Rourke, Colin *see* **Fenn, Roger**, **2000b:20035**
Sageev, Michah *see* **Dunwoody, M. J.**, **2000b:20050**
Sambusetti, Andrea Minimal growth of non-Hopfian free products. (English and French summaries) **2000j:20056**
Shin, Hyunyong (*with* Lyou, Ikseung; Dixon, Martyn R.) On free product in $V(\mathbf{Z}S_3)$. (English summary) **2000m:16046**
Spellman, Dennis *see* **Fine, Benjamin L. et al.**, **2000b:20028** *and* **2000j:20035**
Stille, Michael *see* **Fine, Benjamin L. et al.**, **2000b:20028** *and* **2000j:20035**
Szczepański, Andrzej (*with* Vesnin, Andrei Yu.) High-dimensional knots corresponding to the fractional Fibonacci groups. (English summary) **2000i:57045**
Tang, Chiew Khiam *see* **Wong, P. C.**, **2000a:20069** *and* **2000m:20042**
Tang, Francis C. Y. *see* **Kim, Goansu**, **2000f:20043**
Varsos, D. *see* **Raptis, E.**, **2000b:20045**
Vesnin, Andrei Yu. *see* **Szczepański, Andrzej**, **2000i:57045**
Weidmann, Richard *see* **Kapovich, Ilya**, **2000f:20068**
Wong, P. C. (*with* Tang, Chiew Khiam) Residual finiteness of generalized free products of isomorphic groups. (English summary) **2000a:20069**
— (*with* Tang, Chiew Khiam) Tree products of conjugacy separable groups. (English summary) **2000m:20042**
Yamamura, Akihiro HNN extensions of semilattices. (English summary) **2000h:20119**
Zalesskiĭ, P. A. *see* **Herfort, W. N.**, **2000c:20046**

20E07 Subgroup theorems; subgroup growth

Das, Kaustuv Mukul The Quillen complex of groups of symplectic type: the characteristic 2 case. (English summary) **2000j:20038**
De Giovanni, Francesco (*with* Russo, Alessio) Groups with dense subnormal subgroups. **2000e:20046**
Liebeck, Martin W. Introduction to the subgroup structure of algebraic groups. **2000k:20026**
Matsuno, Takanori The problem of Fenchel about F-groups. (English summary) **2000i:20041**
Mysovskikh, V. I. Investigation of subgroup embeddings by the computer algebra package GAP. (English summary) **2000h:20043**
Ol'shanskiĭ, A. Yu. The growth of finite subgroups in p-groups. (English summary) **2000j:20039**
Osin, D. V. On the generating set's growth function for subgroups of free groups. (English summary) **2000f:20034**
— On rank growth of subgroups in finitely generated groups. (Russian. Russian summary) **2000j:20040**
Rosenmann, Amnon When Schreier transversals grow wild. **2000j:20041**
Russo, Alessio *see* **De Giovanni, Francesco**, **2000e:20046**
Silver, Daniel S. (*with* Williams, Susan G.) On groups with uncountably many subgroups of finite index. (English summary) **2000f:20035**
Williams, Susan G. *see* **Silver, Daniel S.**, **2000f:20035**

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Allenby, R. B. J. T. Some remarks on the upper Frattini subgroup of a generalized free product. (English summary) **2000j:20037**
Bacher, Roland (*with* de la Harpe, Pierre; Venkov, Boris B.) Séries de croissance et polynômes d'Ehrhart associés aux réseaux de racines. (English and French summaries) [Growth series and Ehrhart polynomials associated with root lattices] **2000f:11082**
Belyaev, V. V. (*with* Kuzucuoğlu, M.; Seçkin, E.) Totally inert groups. **2000j:20060**
Berkovich, Yakov Some consequences of Maschke's theorem. (English summary) **2000b:20006**
Ershov, Yurīĭ Leonidovich On a theorem of Kurosh. (Russian. Russian summary) **2000b:20030**
Fraser, Sylvia J. *see* **Lynch, Mark A. M.**, **2000i:51035**
de la Harpe, Pierre *see* **Bacher, Roland et al.**, **2000f:11082**
Ivanov, Sergei Vladimir On the intersection of finitely generated subgroups in free products of groups. (English summary) **2000k:20023**
Kurdachenko, Leonid A. (*with* Smith, Howard) The nilpotency of some groups with all subgroups subnormal. (English summary) **2000c:20054**
Kuzucuoğlu, M. *see* **Belyaev, V. V. et al.**, **2000j:20060**
Li, Cai Heng (*with* Wang, Jie[3]) Finite groups acting 2-transitively on their Sylow subgroups. (Chinese. English and Chinese summaries) **2000b:20023**
Li, Shangzhi *see* **Wang, Deng Yin**, **2000g:20091**
Lynch, Mark A. M. (*with* Fraser, Sylvia J.) Similarity groups, geometry and symmetry. (English summary) **2000i:51035**
Maznīchenko, S. V. On finite groups with cyclic abelian subgroups. (Ukrainian. English and Ukrainian summaries) **2000e:20056**
Ol'shanskiĭ, A. Yu. Distortion functions for subgroups. (English summary) **2000j:20077**
Seçkin, E. *see* **Belyaev, V. V. et al.**, **2000j:20060**
Shukhov, A. G. On the dependence of the growth exponent on the length of the defining relation. (Russian. Russian summary) **2000i:20052**
Smith, Howard *see* **Kurdachenko, Leonid A.**, **2000c:20054**
Turash, Oksana On groups with many abelian-by-finite quotients. (English and Russian summaries) **2000c:20053**
Venkov, Boris B. *see* **Bacher, Roland et al.**, **2000f:11082**
Wang, Deng Yin (*with* Li, Shangzhi) Overgroups of $L(K)$ in $L(F)$. (English summary) **2000g:20091**
Wang, Jie[3] *see* **Li, Cai Heng**, **2000b:20023**
Zhao, Yaoqing On the outer factors of maximal subgroups of a finite group. (English summary) **2000h:20054**

20E08 Groups acting on trees [see also 20F65]

Ballmann, Werner (*with* Świątkowski, Jacek) On groups acting on nonpositively curved cubical complexes. (English summary) **2000m:20036**
Batty, Michael A splitting theorem for groups acting on quasi-trees. (English summary) **2000j:20042**
Chiswell, I. M. Protrees and Λ-trees. **2000f:20036**
— Length functions and Λ-trees. **2000e:20047**
Delzant, Thomas Sur l'accessibilité acylindrique des groupes de présentation finie. (English and French summaries) [On the acylindrical accessibility of finitely presented groups] **2000j:20043**
Dicks, Warren (*with* Dunwoody, M. J.) On equalizers of sections. (English summary) **2000g:20040**
Dunwoody, M. J. Folding sequences. (English summary) **2000f:20037**
— *see also* **Dicks, Warren**, **2000g:20040**
Filippova, T. P. *see* **Rozhkov, A. V.**, **2000i:20042**
Gawron, Piotr Włodzimierz (*with* Nekrashevych, V. V.; Sushchans'kiĭ, V. Ī.) Conjugacy classes of the automorphism group of a tree. (Russian) **2000m:20037**
Jiang, Renfang The simplicial complex of graphs of groups. (English summary) **2000d:20034**
Mozes, Shahar Products of trees, lattices and simple groups. **2000a:20056**
Nebbia, Claudio Minimally almost periodic totally disconnected groups. (English summary) **2000c:20044**
Nekrashevych, V. V. *see* **Gawron, Piotr Włodzimierz et al.**, **2000m:20037**
Rozhkov, A. V. (*with* Filippova, T. P.) Centralizers of elements in automorphism groups of trees. (Russian. Russian summary) **2000i:20042**
— Maximal locally finite subgroups in the Grigorchuk group. (Russian. Russian summary) **2000a:20057**
Sushchans'kiĭ, V. Ī. *see* **Gawron, Piotr Włodzimierz et al.**, **2000m:20037**
Świątkowski, Jacek *see* **Ballmann, Werner**, **2000m:20036**

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Bowditch, B. H. Boundaries of strongly accessible hyperbolic groups. (English summary) **2000d:20059**
— Connectedness properties of limit sets. (English summary) **2000d:20056**
Cohen, Marshall M. (*with* Lustig, Martin) The conjugacy problem for Dehn twist automorphisms of free groups. (English summary) **2000c:20058**
Cowling, Michael (*with* Meda, Stefano; Setti, Alberto G.) Estimates for functions of the Laplace operator on homogeneous trees. (English summary) **2000m:43005**
Daskalopoulos, G. (*with* Dostoglou, Stamatis; Wentworth, Richard A.) On the Morgan-Shalen compactification of the SL(2, C) character varieties of surface groups. **2000m:32024**
Dostoglou, Stamatis *see* **Daskalopoulos, G. et al.**, **2000m:32024**
Dunwoody, M. J. (*with* Sageev, Michah) JSJ-splittings for finitely presented groups over slender groups. (English summary) **2000b:20050**
— (*with* Jones, J. Mary) A group with very strange decomposition properties. (English summary) **2000h:20039**
Fujiwara, Koji 3-manifold groups and property T of Kazhdan. (English summary) **2000i:57002**
Holton, Charles (*with* Zamboni, Luca Q.) Substitutions, partial isometries of $\mathbf{R}$, and actions on trees. (English summary) **2000j:37012**
Jones, J. Mary *see* **Dunwoody, M. J.**, **2000h:20039**
Lustig, Martin *see* **Cohen, Marshall M.**, **2000c:20058**
Meakin, John C. (*with* Yamamura, Akihiro) Bass-Serre theory and inverse monoids. (English summary) **2000i:20099**
Meda, Stefano *see* **Cowling, Michael et al.**, **2000m:43005**
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Vieira, Ana Cristina On some series of normal subgroups of the Gupta-Sidki 3-group. **2000h:20076**
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20E10 Quasivarieties and varieties of groups

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Anokhin, M. I. On the embedding of lattices into certain lattices of varieties of groups. (Russian. Russian summary) **2000i:20043**
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Casacuberta, Carles (*with* Rodríguez, José L.; Scevenels, Dirk) Singly generated radicals associated with varieties of groups. (English summary) **2000h:20044**
Chernikov, N. S. (*with* Trebenko, D. Ya.) Quotient groups of locally graded groups and of groups of some Kurosh-Chernikov classes. (Russian. English and Ukrainian summaries) **2000e:20048**
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Limanskiĭ, V. V. Free operations on locally finite varieties of groups. (Russian) **2000j:20046**
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Salemkar, Ali Reza *see* **Moghaddam, Mohammad Reza R., 2000f:20038**
Scevenels, Dirk *see* **Casacuberta, Carles et al., 2000h:20044**
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Fine, Benjamin L. (*with* Rosenberger, Gerhard; Spellman, Dennis; Stille, Michael) Test, generic and almost primitive elements in free groups. (English summary) **2000b:20028**
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Krempa, Jan On a conjecture of B. Hartley and some related problems. (English and Russian summaries) **2000h:16040**
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Spellman, Dennis *see* **Fine, Benjamin L. et al., 2000b:20028** *and* **2000j:20035**
Stille, Michael *see* **Fine, Benjamin L. et al., 2000b:20028** *and* **2000j:20035**
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20E15 Chains and lattices of subgroups, subnormal subgroups [see also 20F22]

Bludov, V. V. On locally nilpotent groups with the minimal condition on centralizers. **2000h:20045**
Costantini, M. (*with* Zacher, Giovanni) On the group of autoprojectivities of periodic modular groups. **2000a:20059**
Fine, Benjamin L. (*with* Gaglione, Anthony M.; Rosenberger, Gerhard; Spellman, Dennis) The commutative transitive kernel. (English summary) **2000h:20046**
Franchi, Clara Subgroups like Wielandt's in soluble groups. (English summary) **2000k:20027**
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Heineken, Hermann (*with* Kurdachenko, Leonid A.) Groups with finitely many classes of almost equal normal subgroups. (English summary) **2000a:20060**
Kovács, L. G. (*with* Neumann, B. H.; Newman, M. F.) A problem of Grätzer and Wehrung on groups. (English summary) **2000b:20033**
Kurdachenko, Leonid A. *see* **Heineken, Hermann, 2000a:20060**
Landolfi, T. On groups factorized by finitely many subgroups. (English and Ukrainian summaries) **2000f:20040**
Musella, Carmela On almost normal subgroups of supersoluble groups. (Italian summary) **2000g:20044**
Neumann, B. H. *see* **Kovács, L. G. et al., 2000b:20033**
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Schneider, Csaba On the derived subgroup of a finite p-group.
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Shlëpkin, A. K. Shunkov groups with primary minimality condition. II. (English summary) **2000a:20061**
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Smith, Howard Residually finite groups with all subgroups subnormal. **2000e:20050**
Spellman, Dennis *see* **Fine, Benjamin L. et al., 2000h:20046**
Vincenzi, Giovanni Groups satisfying the maximal condition on non-pronormal subgroups. (English summary) **2000c:20045**
Wagner, Frank O. Nilpotency in groups with the minimal condition on centralizers. (English summary) **2000e:20051**
Zacher, Giovanni Subgroup lattices and normal group structure. (Italian) **2000m:20038**
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Robinson, Derek J. S. Permutability properties of subgroups. **2000h:20067**
Semko, N. N. The structure of locally graded CDN( )-groups. (Ukrainian. English and Ukrainian summaries) **2000e:20063**
Tůma, Jiří Representing lattices by homotopy groups of graphs. (English summary) **2000k:06004**
Vieira, Ana Cristina On some series of normal subgroups of the Gupta-Sidki 3-group. **2000h:20076**

20E18 Limits, profinite groups

Dixon, J. D. (*with* du Sautoy, M. P. F.; Mann, Avinoam; Segal, Daniel) ★ Analytic pro-p groups. **2000m:20039**
Haran, Dan Free subgroups of free profinite groups. **2000m:20040**
Herfort, W. N. (*with* Ribes, Luis; Zalesskii, P. A.) p-extensions of free pro-p groups. (English summary) **2000a:20062**
— (*with* Zalesskii, P. A.) Cyclic extensions of free pro-p groups. (English summary) **2000c:20046**
Jarden, Moshe (*with* Lubotzky, Alexander) Random normal subgroups of free profinite groups. **2000h:20047**
Jensen, C. U. Elementary questions in Galois theory. **2000h:20048**
Klopsch, Benjamin Automorphisms of the Nottingham group. (English summary) **2000j:20047**
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Mattarei, Sandro Some thin pro-p-groups. (English summary) **2000h:20049**
Mel'nikov, O. V. Finitely generated subgroups of free profinite groups and of some Galois groups. (Russian. Russian summary) **2000g:20046**
Ribes, Luis ★ Introduction to profinite groups and Galois cohomology. **2000c:20047**
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Romanovskiĭ, N. S. Normal automorphisms of free solvable pro-p-groups. (Russian. Russian summary) **2000a:20063**
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— *see also* **Dixon, J. D. et al., 2000m:20039**
Segal, Daniel Some remarks on p-adic analytic groups. **2000a:20065**
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Shalev, Aner Subgroup structure, fractal dimension, and Kac-Moody algebras. (English summary) **2000c:20048**
Wilson, John S. ★ Profinite groups. **2000j:20048**
Zalesskii, P. A. *see* **Herfort, W. N. et al., 2000a:20062** *and* **2000c:20046**

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— A ramification filtration of the Galois group of a local field. III. (Russian. Russian summary) **2000m:11117b**
Enochs, Edgar E. (*with* García Rozas, Juan Ramon; Oyonarte, Luis; Jenda, Overtoun M. G.) Compact coGalois groups. (English summary) **2000m:20059**
Ershov, Yuriĭ Leonidovich On a theorem of Kurosh. (Russian. Russian summary) **2000b:20030**
García Rozas, Juan Ramon *see* **Enochs, Edgar E. et al., 2000m:20059**
Gruenberg, K. W. (*with* Kovács, L. G.) Proficient presentations and direct products of finite groups. (English summary) **2000i:20051**
Gupta, Chander Kanta Around automorphisms of relatively free groups. **2000d:20051**
Herwig, Bernhard (*with* Lascar, Daniel) Extending partial automorphisms and the profinite topology on free groups. (English summary) **2000j:20036**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E. et al., 2000m:20059**
King, Jeremy D. Homological finiteness conditions for pro-p groups. **2000h:20095**
Kovács, L. G. *see* **Gruenberg, K. W., 2000i:20051**
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Ramakrishnan, Dinakar (*with* Valenza, Robert J.) ★ Fourier analysis on number fields. (English summary) **2000d:11002**
Shalev, Aner (*with* Zel'manov, E. I.) Narrow algebras and groups. **2000i:17008**
Steinberg, Benjamin Monoid kernels and profinite topologies on the free abelian group. (English summary) **2000h:20120**
Valenza, Robert J. *see* **Ramakrishnan, Dinakar, 2000d:11002**

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20E22 Extensions, wreath products, and other compositions [see also 20J05]

Artemovich, O. D. On Frobenius groups associated with modules. (English summary) **2000a:20066**
Azarian, Mohammad K. On the near Frattini subgroups of amalgamated free products with residual properties. (English summary) **2000e:20052b**
— On the near Frattini subgroup of the generalized free product of finitely generated nilpotent groups. (English summary) **2000e:20052a**
Ellis, Graham On the capability of groups. (English summary) **2000e:20053**
Johnson, F. E. A. A rigidity theorem for group extensions. (English summary) **2000f:20042**
Neumann, Peter M. (*with* Rowley, Peter J.) Free actions of abelian groups on groups. **2000g:20047**
Rowley, Peter J. *see* **Neumann, Peter M.**, **2000g:20047**
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Baddeley, Robert A new approach to the finite lattice representation problem. (English summary) **2000c:20035**
Brandl, Rolf (*with* Corsi Tani, G.) Wreath products with a supersoluble automorphism group. (English summary) **2000d:20050**
Corsi Tani, G. *see* **Brandl, Rolf**, **2000d:20050**
Dyubina, A. G. Characteristics of random walks on the wreath products of groups. (Russian. English and Russian summaries) **2000g:60012**
Ershov, Yurii Leonidovich On a theorem of Kurosh. (Russian. Russian summary) **2000b:20030**
Fenn, Roger (*with* Rourke, Colin) Characterisation of a class of equations with solutions over torsion-free groups. (English summary) **2000b:20035**
Gudivok, P. M. (*with* Shapochka, I. V.) On the Chernikov p-groups. (Russian. English and Ukrainian summaries) **2000f:20092**
Herfort, W. N. (*with* Zalesskii, P. A.) Cyclic extensions of free pro-p groups. (English summary) **2000c:20046**
Kuz′min, Yu. V. Homological methods in group theory. **2000a:20115**
Lorensen, Karl On local-global principles for nilpotent group extensions. (English summary) **2000b:20043**
Ponsones, Rigor B. Orbitals of a subgroup of the wreath products of symmetric groups. (English summary) **2000g:20011**
Rourke, Colin *see* **Fenn, Roger**, **2000b:20035**
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Usenko, V. M. Normal closures in free products, and the Kervaire-Laudenbach problem. (Ukrainian. English summary) **2000e:20045**
Wehrfritz, B. A. F. On the finitary linearity of wreath products of groups. (English summary) **2000f:20084**
Zalesskii, P. A. *see* **Herfort, W. N.**, **2000c:20046**

20E25 Local properties

Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) On groups with rank restrictions on subgroups. **2000i:20045**
Evans, Martin J. *see* **Dixon, Martyn R. et al.**, **2000i:20045**
Gupta, Narain D. (*with* Mazurov, Viktor Danilovich) On groups with small orders of elements. (English summary) **2000g:20048**
Leary, Ian J. (*with* Niblo, Graham A.; Wise, Daniel T.) Some free-by-cyclic groups. **2000j:20049**
Mazurov, Viktor Danilovich *see* **Gupta, Narain D.**, **2000g:20048**
Niblo, Graham A. *see* **Leary, Ian J. et al.**, **2000j:20049**
Smith, Howard *see* **Dixon, Martyn R. et al.**, **2000i:20045**
Tang, Chiew Khiam *see* **Wong, P. C.**, **2000d:20035** *and* **2000g:20049**
Wise, Daniel T. *see* **Leary, Ian J. et al.**, **2000j:20049**
Wisztová, Elena IANA groups with the infinite nodal subgroup. (English summary) (*see* **2000j:00022**)
Wong, P. C. (*with* Tang, Chiew Khiam) Tree products and polygonal products of weakly potent groups. (English summary) **2000g:20049**
— (*with* Tang, Chiew Khiam) Generalized free products of conjugacy-separable groups. (English summary) **2000d:20035**

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Alekseev, M. A. (*with* Glebskiĭ, L. Yu.; Gordon, E. I.) On approximations of groups, group actions and Hopf algebras. (Russian. English and Russian summaries) **2000j:20050**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) On groups that are residually of finite rank. (English summary) **2000a:20068**
— (*with* Evans, Martin J.; Smith, Howard) Groups with all proper subgroups (finite rank)-by-nilpotent. (English summary) **2000a:20081**
— (*with* Evans, Martin J.; Smith, Howard) A Tits alternative for groups that are residually of bounded rank. (English summary) **2000d:20036**
Evans, Martin J. *see* **Dixon, Martyn R. et al.**, **2000a:20068**;**2000a:20081** *and* **2000d:20036**
Glebskiĭ, L. Yu. *see* **Alekseev, M. A. et al.**, **2000j:20050**
Gordon, E. I. *see* **Alekseev, M. A. et al.**, **2000j:20050**
Leinen, Felix (*with* Puglisi, Orazio) Periodic groups covered by transitive subgroups of finitary permutations or by irreducible subgroups of finitary transformations. (English summary) **2000i:20062**
Ono, Takashi "Hasse principle" for $\mathrm{GL}_2(D)$. **2000m:20075**
Puglisi, Orazio *see* **Leinen, Felix**, **2000i:20062**
Shlëpkin, A. K. Shunkov groups with primary minimality condition. II. (English summary) **2000a:20061**
— Shunkov groups with primary minimality condition. III. (English summary) **2000g:20045**
Smith, Howard *see* **Dixon, Martyn R. et al.**, **2000a:20068**;**2000a:20081** *and* **2000d:20036**
Vieira, Ana Cristina On some series of normal subgroups of the Gupta-Sidki 3-group. **2000h:20076**
Wagner, Frank O. Nilpotency in groups with the minimal condition on centralizers. (English summary) **2000e:20051**

20E26 Residual properties and generalizations

Alekseev, M. A. (*with* Glebskiĭ, L. Yu.; Gordon, E. I.) On approximations of groups, group actions and Hopf algebras. (Russian. English and Russian summaries) **2000j:20050**
Black, Sarah Asymptotic growth of finite groups. (English summary) **2000a:20067**
Daverman, Robert J. Hyperbolic groups are hyper-Hopfian. (English summary) **2000k:20028**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) On groups that are residually of finite rank. (English summary) **2000a:20068**
— (*with* Evans, Martin J.; Smith, Howard) A Tits alternative for groups that are residually of bounded rank. (English summary) **2000d:20036**
Evans, Martin J. *see* **Dixon, Martyn R. et al.**, **2000a:20068** *and* **2000d:20036**
Glebskiĭ, L. Yu. *see* **Alekseev, M. A. et al.**, **2000j:20050**
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Kalashnikova, N. V. Groups whose proper quotient groups possess the layer-Chernikov properties. (Ukrainian. English and Ukrainian summaries) **2000e:20054**
Kim, Goansu (*with* Tang, Francis C. Y.) Cyclic subgroup separability of HNN-extensions with cyclic associated subgroups. (English summary) **2000f:20043**
Klyachko, Anton A. Equations over groups, quasivarieties, and a residual property of a free group. **2000f:20044**
Niblo, Graham A. Double coset decompositions of groups. (English summary) **2000i:20046**
Njock, G. E. *see* **Tieudjo, D. et al.**, **2000d:20037**
Rozhkov, A. V. On finiteness conditions that weaken local finiteness. (Russian) **2000k:20029**
Smith, Howard *see* **Dixon, Martyn R. et al.**, **2000a:20068** *and* **2000d:20036**
Tang, Chiew Khiam *see* **Wong, P. C.**, **2000a:20069** *and* **2000m:20042**
Tang, Francis C. Y. *see* **Kim, Goansu**, **2000f:20043**
Tieudjo, D. (*with* Tonga, M.; Njock, G. E.) On the properties of the endomorphisms of residually finite groups. (English summary) **2000d:20037**
Tonga, M. *see* **Tieudjo, D. et al.**, **2000d:20037**
Wong, P. C. (*with* Tang, Chiew Khiam) Residual finiteness of generalized free products of isomorphic groups. (English summary) **2000a:20069**
— (*with* Tang, Chiew Khiam) Tree products of conjugacy separable groups. (English summary) **2000m:20042**

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Azarian, Mohammad K. On the near Frattini subgroups of amalgamated free products with residual properties. (English summary) **2000e:20052b**
— On the near Frattini subgroup of the generalized free product of finitely generated nilpotent groups. (English summary) **2000e:20052a**
Azarov, D. N. On the residual nilpotence of free products of free groups with cyclic amalgamation. (Russian. Russian summary) **2000g:20038**
Baumslag, Gilbert Some open problems. **2000a:20071**
Berrick, A. J. (*with* Casacuberta, Carles) A universal space for plus-constructions. (English summary) **2000a:55023**
Casacuberta, Carles *see* **Berrick, A. J.**, **2000a:55023**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) On groups with rank restrictions on subgroups. **2000i:20045**
Evans, Martin J. *see* **Dixon, Martyn R. et al.**, **2000i:20045**
Gitik, Rita Ping-pong on negatively curved groups. **2000e:20070**
— On the profinite topology on negatively curved groups. (English summary) **2000g:20072**
Hsu, Tim (*with* Wise, Daniel T.) On linear and residual properties of graph products. **2000k:20056**
Kharlampovich, O. (*with* Myasnikov, A. G.) Irreducible affine varieties over a free group. II. Systems in triangular quasi-quadratic form and description of residually free groups. (English summary) **2000b:20032b**
Kim, Goansu Conjugacy separability of free products with amalgamation. (English summary) **2000a:20055**
— (*with* Tang, Francis C. Y.) Conjugacy separability of generalized free products of finite extensions of residually nilpotent groups. **2000m:20034**
— (*with* Tang, Francis C. Y.) A criterion for the conjugacy separability of certain HNN extensions of groups. (English summary) **2000k:20024**
Loginova, E. D. Residual finiteness of the free product of two groups with commuting subgroups. (Russian. Russian summary) **2000e:20044**
Matsumoto, Saburo Separability criterion for graph-manifold groups. (English summary) **2000b:57032**
Myasnikov, A. G. *see* **Kharlampovich, O.**, **2000b:20032b**
Ol′shanskii, A. Yu. The growth of finite subgroups in p-groups. (English summary) **2000j:20039**
Shumyatsky, Pavel Nilpotency of some Lie algebras associated with p-groups. (English summary) **2000i:17014**
Smith, Howard *see* **Dixon, Martyn R. et al.**, **2000i:20045**
Tang, Chiew Khiam *see* **Wong, P. C.**, **2000d:20033** *and* **2000g:20049**
Tang, Francis C. Y. *see* **Kim, Goansu**, **2000k:20024** *and* **2000m:20034**
Wise, Daniel T. *see* **Hsu, Tim**, **2000k:20056**
Wong, P. C. (*with* Tang, Chiew Khiam) Tree products and polygonal products of weakly potent groups. (English summary) **2000g:20049**

— (*with* Tang, Chiew Khiam) Cyclic subgroup separability of certain HNN extensions of finitely generated abelian groups. (English summary) **2000d:20033**

20E28 Maximal subgroups

Dye, Roger H. Some geometry of A_7 and $PSU_3(5^2)$. (English summary) **2000e:20055**
Zhao, Yaoqing On the Deskins completions, theta pairs and theta completions for maximal subgroups. (English summary) **2000k:20030**

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Ashrafi, Ali Reza On the number of minimal and maximal subgroups of a finite group. (English summary) **2000d:20024**
Azarian, Mohammad K. On the near Frattini subgroups of amalgamated free products with residual properties. (English summary) **2000e:20052b**
— On the near Frattini subgroup of the generalized free product of finitely generated nilpotent groups. (English summary) **2000e:20052a**
Dalle Molle, Marianna Sylow subgroups which are maximal in the universal locally finite group of Philip Hall. (English summary) **2000f:20061**
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Pasechnik, D. V. *see* **Baumeister, Barbara et al., 2000j:20025**
Ryba, A. J. E. *see* **Griess, Robert L., Jr., 2000a:20106**
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20E34 General structure theorems

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Deryabina, G. S. (*with* Kozhevnikov, P. A.) The derived subgroup of a group with commutators of bounded order can be non-periodic. (English summary) **2000f:20045**
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20E42 Groups with a BN-pair; buildings [see also 51E24]

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Xia, Jian-guo Fundamental groups of triangle geometries. (English and Chinese summaries) **2000h:51026**

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Boston, Nigel (*with* Walker, Judy L.) 2-groups with few conjugacy classes. (English summary) **2000m:20045**
Li, Shi Rong On the class length of elements of prime power order in finite groups. (English and Chinese summaries) **2000m:20046**
Segal, Daniel (*with* Shalev, Aner) On groups with bounded conjugacy classes. **2000j:20053**
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20Fxx Special aspects of infinite or finite groups

Items with secondary classifications in 20Fxx

(Birget, J.-C.) *see* **Algorithmic problems in groups and semigroups, 2000k:20001**
(Margolis, Stuart W.) *see* **Algorithmic problems in groups and semigroups, 2000k:20001**
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(Sapir, Mark V.) *see* **Algorithmic problems in groups and semigroups, 2000k:20001**

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Conference:
Algorithmic Problems in Groups and Semigroups ★ Algorithmic problems in groups and semigroups. **2000k:20001**
Lincoln, NE ★ Algorithmic problems in groups and semigroups. **2000k:20001**

20F05 Generators, relations, and presentations

Ali, Asif *see* **Mushtaq, Qaiser, 2000d:20043**
Aslam, Muhammad[1] *see* **Mushtaq, Qaiser, 2000a:20073**
Baik, Young Gheel (*with* Harlander, Jens; Pride, Stephen J.) The geometry of group extensions. **2000g:20055**
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Havas, George (*with* Newman, M. F.; Niemeyer, Alice C.; Sims, Charles C.) Groups with exponent six. (English summary) **2000f:20049**
— (*with* Holt, Derek F.; Kenne, P. E.; Rees, Sarah) Some challenging group presentations. (English summary) **2000h:20055**
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Sambusetti, Andrea Minimal growth of non-Hopfian free products. (English and French summaries) **2000j:20056**
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Scarabotti, Fabio On the presentations of the trivial group. **2000e:20058**
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20F14 Derived series, central series, and generalizations

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20F17 Formations of groups, Fitting classes [see also 20D10]

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Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A. et al., 2000f:20030**

20F18 Nilpotent groups [see also 20D15]

Cassidy, Charles (*with* Scevenels, Dirk) From Mislin genus to strong genus. (English summary) **2000a:20078**
Ellis, Graham On the Schur multiplier of p-groups. **2000g:20061**
Kurdachenko, Leonid A. (*with* Smith, Howard) The nilpotency of some groups with all subgroups subnormal. (English summary) **2000c:20054**
Lorensen, Karl On local-global principles for nilpotent group extensions. (English summary) **2000b:20043**
Magidin Viso, Arturo Dominions in varieties of nilpotent groups. (English summary) **2000m:20053**
Mashayekhy, B. *see* **Moghaddam, Mohammad Reza R., 2000a:20079**
Mazurok, O. O. Groups with an elementary abelian commutant of order at most p^2. (Ukrainian. English and Ukrainian summaries) **2000e:20062**
Moghaddam, Mohammad Reza R. (*with* Mashayekhy, B.) Higher Schur-multiplicator of a finite abelian group. (English summary) **2000a:20079**
Scevenels, Dirk *see* **Cassidy, Charles, 2000a:20078**
Semko, N. N. On the structure of CDN [ ]-groups. (Ukrainian. English and Ukrainian summaries) **2000f:20055**
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Baudisch, Andreas Groups with Hrushovski-geometries. (English summary) **2000e:03097**
Bludov, V. V. On locally nilpotent groups with the minimal condition on centralizers. **2000h:20045**
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Dekimpe, Karel (*with* Malfait, Wim) A special class of nilmanifolds admitting an Anosov diffeomorphism. (English summary) **2000m:37029**
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Fukaya, Takako On Hasse zeta functions of group algebras of almost nilpotent groups. **2000b:11128**
Grunewald, Fritz *see* **du Sautoy, M. P. F., 2000g:11110**
Hammoudi, Lakhdar Just-infinite nil-rings and groups. (English summary) **2000b:16035**
Herfort, W. N. *see* **Burns, R. G. et al., 2000g:20056**
Hidber, Christian Isoperimetric functions of finitely generated nilpotent groups. (English summary) **2000j:20074**
Hill, Richard Michael *see* **Fel'shtyn, A. L., 2000a:37007**
Hilton, Peter (*with* Scevenels, Dirk) Calculating and interpreting the Mislin genus of a special class of nilpotent spaces. (English summary) **2000b:55008**
Kam, S.-M. *see* **Burns, R. G. et al., 2000g:20056**
Kappe, Luise-Charlotte (*with* Traustason, Gunnar) Subnormality conditions in non-torsion groups. (English summary) **2000c:20052**
Kim, Goansu (*with* Tang, Francis C. Y.) Cyclic subgroup separability of HNN-extensions with cyclic associated subgroups. (English summary) **2000f:20043**
Macedońska, O. *see* **Burns, R. G. et al., 2000g:20056**
Maier, Rudolf (*with* Rogério, José Robério) $\mathfrak{X}C$-elements in groups and Dietzmann classes. (English summary) **2000a:20084**
Malfait, Wim *see* **Dekimpe, Karel, 2000m:37029**
Moghaddam, Mohammad Reza R. (*with* Sedghi, S.; Taheri, M.) Some properties of n-nilpotent and n-soluble groups. (English summary) **2000g:20060**
Morse, Robert Fitzgerald Solvable Engel groups with nilpotent normal closures. (English summary) **2000h:20066**
Nickel, Werner Some groups with right Engel elements. (English summary) **2000h:20075**
Ol'shanskii, A. Yu. The growth of finite subgroups in p-groups. (English summary) **2000j:20039**
Rogério, José Robério *see* **Maier, Rudolf, 2000a:20084**
du Sautoy, M. P. F. (*with* Grunewald, Fritz) Analytic properties of Euler products of Igusa-type zeta functions and subgroup growth of nilpotent groups. (English and French summaries) **2000g:11110**
Scevenels, Dirk On decomposable pseudofree groups. (English summary) **2000f:20089**
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Scott, S. D. N-solubility and N-nilpotency in tame N-groups. (English summary) **2000f:16060**
Sedghi, S. *see* **Moghaddam, Mohammad Reza R. et al., 2000g:20060**
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Taheri, M. *see* **Moghaddam, Mohammad Reza R. et al., 2000g:20060**
Tang, Francis C. Y. *see* **Kim, Goansu, 2000f:20043**
Traustason, Gunnar *see* **Kappe, Luise-Charlotte, 2000c:20052**
Zalesskiĭ, P. A. *see* **Burns, R. G. et al., 2000g:20056**

20F19 Generalizations of solvable and nilpotent groups

Asar, A. O. Corrigendum: "Barely transitive locally nilpotent p-groups" [J. London Math. Soc. **55** (1997), no. 2, 357–362; MR 98a:20032]. **2000m:20054**
Bludov, V. V. On locally nilpotent groups with the minimality condition for centralizers. (Russian. Russian summary) **2000a:20080**
De Giovanni, Francesco *see* **Franciosi, Silvana, 2000a:20082**
Descheemaeker, An (*with* Malfait, Wim) On the uniqueness of roots in virtually nilpotent groups. (English summary) **2000h:20069**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) Groups with all proper subgroups (finite rank)-by-nilpotent. (English summary) **2000a:20081**
Duan, Ze Yong (*with* Kurdachenko, Leonid A.; Subbotin, Ĭ. Ya.) Artinian modules over hyperfinite groups. (English summary) **2000c:20055**
Evans, Martin J. *see* **Dixon, Martyn R. et al., 2000a:20081**
Franciosi, Silvana (*with* De Giovanni, Francesco) On groups with many nearly maximal subgroups. (English and Italian summaries) **2000a:20082**
Fray, R. L. On the product of two normal subgroups of a group. (English summary) **2000k:20044**
Gorodnik, O. V. The product of an abelian group and a nilpotent group. (Ukrainian. English and Ukrainian summaries) **2000j:20058**
Höfling, Burkhard Subgroups of locally finite products of locally nilpotent groups. (English summary) **2000j:20059**
Jiang, Jiu Liang Two results on n-solvable groups and n-nilpotent groups. (Chinese. English and Chinese summaries) **2000c:20056**
Kurdachenko, Leonid A. (*with* Petrenko, B. V.; Subbotin, Ĭ. Ya.) On the complementability of some generalized hypercenters in Artinian modules. (Ukrainian. English and Ukrainian summaries) **2000a:20083**
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Longobardi, Patrizia (*with* Maj, Mercede) Semigroup identities and Engel groups. (English summary) **2000h:20070**
Maj, Mercede *see* **Longobardi, Patrizia, 2000h:20070**
Malfait, Wim *see* **Descheemaeker, An, 2000h:20069**
Petrenko, B. V. *see* **Kurdachenko, Leonid A. et al., 2000a:20083**
Qian, Fang Sheng (*with* Shi, Hong Lian) Some properties of ST-groups. (Chinese. English and Chinese summaries)
Semko, N. N. The structure of locally graded CDN( )-groups. (Ukrainian. English and Ukrainian summaries) **2000e:20063**
Shi, Hong Lian *see* **Qian, Fang Sheng**
Smith, Howard (*with* Wiegold, James) Soluble groups isomorphic to their non-nilpotent subgroups. (English summary) **2000i:20055**
— *see also* **Dixon, Martyn R. et al., 2000a:20081**
Subbotin, Ĭ. Ya. *see* **Kurdachenko, Leonid A. et al., 2000a:20083** *and* **Duan, Ze Yong et al., 2000c:20055**
Turash, Oksana On groups with a system of nilpotent quotient groups. (Ukrainian. English and Russian summaries) **2000d:20049**
Wiegold, James *see* **Smith, Howard, 2000i:20055**
Zhang, Xiu Li On Γ_k-πn groups. II. (Chinese. English and Chinese summaries)
Zhang, Zhirang The locally solvable radical of locally finite groups. (English summary) **2000c:20057**

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Artemovich, O. D. On locally graded groups with the minimality condition for a system of nonhypercentral subgroups. (Russian. English and Ukrainian summaries) **2000k:20045**
De Giovanni, Francesco *see* **Franciosi, Silvana et al., 2000f:20056**
Dekimpe, Karel ★ Almost-Bieberbach groups: affine and polynomial structures. **2000b:20066**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) On groups with rank restrictions on subgroups. **2000i:20045**
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Franciosi, Silvana (*with* De Giovanni, Francesco; Sysak, Yaroslav P.) Groups with many FC-subgroups. **2000f:20056**
Heineken, Hermann (*with* Kurdachenko, Leonid A.) Groups with finitely many classes of almost equal normal subgroups. (English summary) **2000a:20060**
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Mattarei, Sandro Some thin pro-p-groups. (English summary) **2000h:20049**
Morse, Robert Fitzgerald Solvable Engel groups with nilpotent normal closures. (English summary) **2000h:20066**
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Semko, N. N. The structure of locally graded CDN[ )-groups. (Ukrainian. English and Ukrainian summaries) **2000f:20041**
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Vincenzi, Giovanni Groups satisfying the maximal condition on non-pronormal subgroups. (English summary) **2000c:20045**
Wagner, Frank O. CM-triviality and stable groups. (English summary) **2000d:03075**

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20F22 Other classes of groups defined by subgroup chains

Artemovich, O. D. On locally graded groups with the minimality condition for a system of nonhypercentral subgroups. (Russian. English and Ukrainian summaries) **2000k:20045**
Kurdachenko, Leonid A. (*with* Subbotin, Ĭ. Ya.) Groups with many periodic factor-groups. (English summary) **2000m:20055**
Petrenko, B. V. One generalization of Fitting's theorem. (English and Russian summaries) **2000e:20064**
Subbotin, Ĭ. Ya. *see* **Kurdachenko, Leonid A., 2000m:20055**

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Bludov, V. V. On locally nilpotent groups with the minimality condition for centralizers. (Russian. Russian summary) **2000a:20080**
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Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) On groups that are residually of finite rank. (English summary) **2000a:20068**
Duan, Ze Yong (*with* Kurdachenko, Leonid A.; Subbotin, Ĭ. Ya.) Artinian modules over hyperfinite groups. (English summary) **2000c:20055**
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Longobardi, Patrizia (*with* Maj, Mercede; Rhemtulla, Akbar) When is a right orderable group locally indicable? (English summary) **2000j:20072**
Maj, Mercede *see* **Longobardi, Patrizia et al., 2000j:20072**
Rhemtulla, Akbar *see* **Longobardi, Patrizia et al., 2000j:20072**
Smith, Howard *see* **Dixon, Martyn R. et al., 2000a:20068**
Subbotin, Ĭ. Ya. *see* **Duan, Ze Yong et al., 2000c:20055**

20F24 FC-groups and their generalizations

Abdollahi, Alireza (*with* Taeri, Bijan) A condition on finitely generated soluble groups. (English summary) **2000i:20056**
Belyaev, V. V. (*with* Kuzucuoğlu, M.; Seçkin, E.) Totally inert groups. **2000j:20060**
De Giovanni, Francesco *see* **Franciosi, Silvana et al., 2000f:20056**
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Kurdachenko, Leonid A. (*with* Otal, Javier; Tomkinson, M. J.) FC-groups whose central factor group can be embedded in a direct product of finite groups. (English summary) **2000m:20056**
Kuzucuoğlu, M. *see* **Belyaev, V. V. et al., 2000j:20060**
Maier, Rudolf (*with* Rogério, José Robério) $\mathfrak{X}C$-elements in groups and Dietzmann classes. (English summary) **2000a:20084**
Otal, Javier *see* **Kurdachenko, Leonid A. et al., 2000m:20056**
Polovitskiĭ, Ya. D. CC- and CL-groups with almost abelian FC-subgroups. (Russian) **2000j:20061**
Rogério, José Robério *see* **Maier, Rudolf, 2000a:20084**
Seçkin, E. *see* **Belyaev, V. V. et al., 2000j:20060**
Sysak, Yaroslav P. *see* **Franciosi, Silvana et al., 2000f:20056**
Taeri, Bijan *see* **Abdollahi, Alireza, 2000i:20056**
Tomkinson, M. J. *see* **Kurdachenko, Leonid A. et al., 2000m:20056**

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20F28 Automorphism groups of groups [see also 20E36]

Almazar, Vittorio D. (*with* Cossey, John) Automorphisms fixing subnormal subgroups of polycyclic groups. **2000j:20062**
Bodnarchuk, Yu. V. (*with* Lavrenyuk, Ya. V.) The automorphism group of a normalizer of the Sylow p-subgroup of the symmetric group S_{p^n}. (Ukrainian. English summary) **2000i:20057**
Brandl, Rolf (*with* Corsi Tani, G.) Wreath products with a supersoluble automorphism group. (English summary) **2000d:20050**
— (*with* Franciosi, Silvana; De Giovanni, Francesco) Groups whose subgroups have small automizers. (English summary) **2000g:20062**
Cohen, Marshall M. (*with* Lustig, Martin) The conjugacy problem for Dehn twist automorphisms of free groups. (English summary) **2000c:20058**
Corsi Tani, G. *see* **Brandl, Rolf, 2000d:20050**
Cossey, John *see* **Almazar, Vittorio D., 2000j:20062**
De Giovanni, Francesco *see* **Brandl, Rolf et al., 2000g:20062**
Franciosi, Silvana *see* **Brandl, Rolf et al., 2000g:20062**
Gupta, Chander Kanta Around automorphisms of relatively free groups. **2000d:20051**
Hamkins, Joel David (*with* Thomas, Simon R.) Changing the heights of automorphism towers. (English summary) **2000m:20057**
Huang, Ping An The automorphism groups of groups of order pq. (Chinese. English and Chinese summaries)
Humphries, Stephen P. Weak Cayley table groups. (English summary) **2000b:20044**
Jabara, Enrico Automorphisms that fix the centralizers of a group. (Italian. English summary) **2000j:20063**
Lavrenyuk, Ya. V. *see* **Bodnarchuk, Yu. V., 2000i:20057**
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Orlandi-Korner, Lisa A. The Bieri-Neumann-Strebel invariant for basis-conjugating automorphisms of free groups. (English summary) **2000k:20046**
Pettet, Martin R. The automorphism group of a graph product of groups. (English summary) **2000i:20058**
Raptis, E. (*with* Varsos, D.) On the automorphism group of the fundamental group of a graph of polycyclic groups. (English summary) **2000b:20045**

Savushkina, A. G. Basis-conjugating automorphisms of a free group. (Russian. Russian summary) **2000f:20057**
Shpilrain, Vladimir Automorphisms of one-relator groups. (English summary) **2000a:20085**
Thomas, Simon R. *see* **Hamkins, Joel David, 2000m:20057**
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Evans, Martin J. Primitive elements in the free metabelian group of rank 3. **2000j:20044**
Glover, H. H. (*with* Mislin, G.; Voon, S. N.) The p-primary Farrell cohomology of $\mathrm{Out}(F_{p-1})$. (English summary) **2000g:20103**
Hamkins, Joel David Every group has a terminating transfinite automorphism tower. (English summary) **2000e:20057**
Hatcher, Allen (*with* Vogtmann, Karen) Cerf theory for graphs. (English summary) **2000e:20041**
Kapovich, Ilya (*with* Weidmann, Richard) On the structure of two-generated hyperbolic groups. (English summary) **2000f:20068**
Khukhro, E. I. Almost regular automorphisms. **2000f:17025**
Klopsch, Benjamin Automorphisms of the Nottingham group. (English summary) **2000j:20047**
Li, Cai Heng Isomorphisms of finite Cayley digraphs of bounded valency. II. (English summary) **2000h:05106**
Mislin, G. *see* **Glover, H. H. et al., 2000g:20103**
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Weidmann, Richard *see* **Kapovich, Ilya, 2000f:20068**

20F29 Representations of groups as automorphism groups of algebraic systems

Gorchinskiĭ, Yu. N. On $\overline{\pi}$-homomorphisms of finite multibase universal algebras. (Russian. Russian summary) **2000h:20071**
Schultz, Phillip Groups acting on modules. (English summary) **2000k:20047**

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Bogopol'skiĭ, O. V. Classifying the actions of finite groups on orientable surfaces of genus 4 [translation of *Proceedings of the Institute of Mathematics, 30* (Russian), 48–69, Izdat. Ross. Akad. Nauk, Sibirsk. Otdel., Inst. Mat., Novosibirsk, 1996]. (English summary) **2000e:30083**
Shu, Bin The automorphism groups of Lie algebras of Cartan type. (Chinese. Chinese summary) **2000g:17022**
Wehrfritz, B. A. F. On the finitary linearity of wreath products of groups. (English summary) **2000f:20084**

20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx]

Dekimpe, Karel Polycyclic-by-finite groups: from affine to polynomial structures. **2000h:20072**
Eda, Katsuya Free subgroups of the fundamental group of the Hawaiian earring. **2000g:20063**
Ha, Sang Jung (*with* Kim, Ann Chi) On group presentations from 3-manifolds. **2000i:20059**
Kim, Ann Chi *see* **Ha, Sang Jung, 2000i:20059**

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Dekimpe, Karel (*with* Malfait, Wim) A special class of nilmanifolds admitting an Anosov diffeomorphism. (English summary) **2000m:37029**
Feighn, Mark (*with* Handel, Michael) Mapping tori of free group automorphisms are coherent. (English summary) **2000i:20050**
Ha, Sang Jung (*with* Kim, Ann Chi) Group presentations and 3-manifolds. (*see* **2000g:53001**)
Handel, Michael *see* **Feighn, Mark, 2000i:20050**
Harbater, David (*with* Schneps, Leila) Fundamental groups of moduli and the Grothendieck-Teichmüller group. (English summary) **2000j:14025**
Kim, Ann Chi *see* **Ha, Sang Jung, (2000g:53001)**
Malfait, Wim *see* **Dekimpe, Karel, 2000m:37029**
Manuilov, V. M. Almost representations and asymptotic representations of discrete groups. (Russian. Russian summary) **2000j:22003**
Martin, B. M. S. Restrictions of representations of a surface group to a pair of free subgroups. (English summary) **2000k:57006**
Pettet, Martin R. The automorphism group of a graph product of groups. (English summary) **2000i:20058**
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Raptis, E. (*with* Varsos, D.) On the automorphism group of the fundamental group of a graph of polycyclic groups. (English summary) **2000b:20045**
Ruane, Kim E. Boundaries of CAT(0) groups of the form $\Gamma = G \times H$. (English summary) **2000h:20074**
Schneps, Leila *see* **Harbater, David, 2000j:14025**
Szczepański, Andrzej (*with* Vesnin, Andrei Yu.) High-dimensional knots corresponding to the fractional Fibonacci groups. (English summary) **2000i:57045**
Toledo, Domingo *see* **Carlson, James A., 2000a:32038**
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Vesnin, Andrei Yu. *see* **Szczepański, Andrzej, 2000i:57045**

20F36 Braid groups; Artin groups

Bonis, Raphaël Groupes d'Artin et formes réelles des relations de Yang-Baxter. (English and French summaries) [Artin groups and real forms of Yang-Baxter relations] **2000k:20048**
Charney, Ruth Injectivity of the positive monoid for some infinite type Artin groups. (English summary) **2000h:20073**
Dehornoy, Patrick Strange questions about braids. (English summary) **2000d:20052**
— Three-dimensional realizations of braids. (English summary) **2000i:20060**
Fenn, Roger (*with* Greene, Michael T.; Rolfsen, Dale; Rourke, Colin; Wiest, Bert) Ordering the braid groups. (English summary) **2000j:20064**
Greene, Michael T. *see* **Fenn, Roger et al., 2000j:20064**
Guedes de Oliveira, António An interpretation of the monodromy group of a wiring diagram. (*see* **2000a:53001**)
Hermiller, Susan M. (*with* Meier, John) Artin groups, rewriting systems and three-manifolds. (English summary) **2000m:20058**
Hsu, Tim Quilts, the 3-string braid group, and braid actions on finite groups: an introduction. (English summary) **2000c:20059**
Hudson, John F. P. The intersection of flat subsets of a braid group. (English summary) **2000g:20064**
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Michel, Jean Christian Marie A note on words in braid monoids. (English summary) **2000b:20046**
Nencka, Hanna On some extensions of Artin's braid relations. (English summary) **2000f:20058**
Paris, L. (*with* Rolfsen, Dale) Geometric subgroups of surface braid groups. (English and French summaries) **2000f:20059**
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Shalashov, V. K. On a question concerning the algebraic problem of knots. (Russian) **2000j:20065**
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Vershinin, Vladimir V. Braid groups and loop spaces. (Russian) **2000k:20049**
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Berceanu, Barbu Rudolf Homotopie rationnelle des espaces de petite dimension. [Rational homotopy of spaces of small dimension] **2000a:55024**
Berger, Clemens Double loop spaces, braided monoidal categories and algebraic 3-type of space. (English summary) **2000e:55009**
Berger, Gabriel Fake congruence subgroups and the Hurwitz monodromy group. (English summary) **2000h:11037**
Bestvina, Mladen Non-positively curved aspects of Artin groups of finite type. (English summary) **2000h:20079**
Bezverkhniĭ, V. N. (*with* Dobrynina, I. V.) Undecidability of the conjugacy problem for subgroups in the colored braid group R_5. (Russian. Russian summary) **2000f:20050**
De Concini, Corrado (*with* Salvetti, Mario) Stability for the cohomology of Artin groups. **2000e:20083**
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Erlijman, Juliana Two-sided braid groups and asymptotic inclusions. (English summary) **2000m:46126**
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Kamada, Seiichi Unknotting immersed surface-links and singular 2-dimensional braids by 1-handle surgeries. **2000e:57040**
Kapovich, Michael (*with* Millson, John J.) Moduli spaces of linkages and arrangements. (English summary) **2000g:14019**
Kim, Jaehoo Park A HOMFLY-PT polynomial of links in a solid torus. (English summary) **2000g:57023**
Kohno, Toshitake Elliptic KZ system, braid group of the torus and Vassiliev invariants. (English summary) **2000c:57023**
Lee, Sang Youl Matrix presentations of braids and applications. (English summary) **2000b:57008**
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20F67 Hyperbolic groups and nonpositively curved groups

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20F69 Asymptotic properties of groups

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20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

20G05 Representation theory

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20G25 Linear algebraic groups over local fields and their integers

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Gille, Philippe Éléments unipotents des groups algébriques semi-simples simplement connexes en caractéristique $p>0$. (English and French summaries) [Unipotent elements of simply connected semisimple algebraic groups in characteristic $p>0$] **2000f:20074**
Glöckner, Helge Scale functions on p-adic Lie groups. (English summary) **2000a:22027**
Ilani, Ishai Zeta functions related to the group $\mathrm{SL}_2(\mathbf{Z}_p)$. (English summary) **2000b:11107**
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Nevins, Monica Admissible nilpotent coadjoint orbits of p-adic reductive Lie groups. (English summary) **2000k:22023**
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Sage, Daniel S. The geometry of fixed point varieties on affine flag manifolds. (English summary) **2000j:14074**

20G30 Linear algebraic groups over global fields and their integers

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Grunewald, Fritz (*with* Platonov, Vladimir Petrovich) Solvable arithmetic groups and arithmeticity problems. (English summary) **2000d:20066**
Kitaoka, Yoshiyuki Finite arithmetic subgroups of GL_n. VI. **2000j:20091**
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Borovoi, Mikhail A cohomological obstruction to the Hasse principle for homogeneous spaces. **2000i:11102**
Dixon, J. D. (*with* du Sautoy, M. P. F.; Mann, Avinoam; Segal, Daniel) ★ Analytic pro-p groups. **2000m:20039**
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— (*with* Schwermer, Joachim) On the concept of level for subgroups of SL_2 over arithmetic rings. (English summary) **2000j:20093**
Liu, Guoyang (*with* Robertson, Lewis C.) Free groups and free products in $\mathrm{SL}_2(\mathbf{Z})$. (English summary) **2000b:20031**
Mann, Avinoam *see* **Dixon, J. D. et al.**, **2000m:20039**
Oh, Hee Arithmetic properties of some Zariski dense discrete subgroups. (English summary) **2000f:22015**
Platonov, Vladimir Petrovich *see* **Grunewald, Fritz**, **2000j:11079**
Robertson, Lewis C. *see* **Liu, Guoyang**, **2000b:20031**
du Sautoy, M. P. F. *see* **Dixon, J. D. et al.**, **2000m:20039**
Schwermer, Joachim *see* **Grunewald, Fritz**, **2000j:20093**
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Soifer, G. A. Structure of infinite index maximal subgroups of $SL_n(\mathbf{Z})$. (English summary) **2000g:22016**

20G35 Linear algebraic groups over adèles and other rings and schemes

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Dybkova, E. V. Form nets and the lattice of upper-diagonal subgroups of the symplectic group over a field of characteristic 2. (Russian. Russian summary) **2000a:20107**
Keller, Gordon E. *see* **Costa, Douglas L., 2000c:20070**
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Lucchini, Andrea $(2, 3, k)$-generated groups of large rank. (English summary) **2000i:20077**
— (*with* Tamburini Bellani, Maria Chiara; Wilson, John S.) Hurwitz groups of large rank. **2000m:20074**
Ono, Takashi "Hasse principle" for $GL_2(D)$. **2000m:20075**
Stepanov, Aleksei Vladimirovich (*with* Vavilov, N. A.) Decomposition of transvections: a theme with variations. (English summary) **2000m:20076**
Tamburini Bellani, Maria Chiara *see* **Lucchini, Andrea et al., 2000m:20074**
Vavilov, N. A. *see* **Stepanov, Aleksei Vladimirovich, 2000m:20076**
Wilson, John S. *see* **Lucchini, Andrea et al., 2000m:20074**
You, Hong Products of involutory matrices with determinant 1 over rings. (English summary) **2000c:20071**

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Kramer, Jürg Unitary double cosets for GL_2. **2000c:11081**
Mason, A. W. Free quotients of infinite rank of GL_2 over Dedekind domains. (English summary) **2000b:20065**

20G40 Linear algebraic groups over finite fields

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Beals, Robert *see* **Babai, László, 2000h:20089**
Bonis, Raphaël Groupes de Chevalley et relations de Yang-Baxter; présentation des groupes unipotents. (English and French summaries) [Chevalley groups and Yang-Baxter relations; presentation of unipotent groups] **2000f:20079**
Bonnafé, Cédric Regular unipotent elements. (English and French summaries) **2000e:20077**
Broué, Michel (*with* Malle, Gunter) Generalized Harish-Chandra theory. **2000k:20063**
Darafsheh, M. R. Affine subgroups of the classical groups and their character degrees. (English summary) **2000g:20096**
Fei, Chun Bin Upper bounds on the orders of nilpotent completely reducible linear groups. (Chinese. English and Chinese summaries) **2000d:20067**
Fulman, Jason A probabilistic approach toward conjugacy classes in the finite general linear and unitary groups. (English summary) **2000c:20072**
— Counting semisimple orbits of finite Lie algebras by genus. (English summary) **2000i:20078**
Gao, You *see* **You, Hong, 2000h:20091**
Geck, Meinolf Finite groups of Lie type. **2000i:20079**
Howlett, Robert B. (*with* Lehrer, G. I.) On reflection length in reflection groups. (English summary) **2000g:20097**
Lehrer, G. I. *see* **Howlett, Robert B., 2000g:20097**
Lin, Zongzhu (*with* Nakano, Daniel K.) Complexity for modules over finite Chevalley groups and classical Lie algebras. **2000m:20077**
Liu, Feng Ju A characteristic property of the projective special linear group $L_3(8)$. (Chinese. English and Chinese summaries)
Lucchini, Andrea (*with* Tamburini Bellani, Maria Chiara) Classical groups of large rank as Hurwitz groups. **2000f:20080**
Malle, Gunter *see* **Broué, Michel, 2000k:20063**
Mazurov, Viktor Danilovich *see* **Zhurtov, A. Kh., 2000d:20068**
Nakano, Daniel K. *see* **Lin, Zongzhu, 2000m:20077**
Niemeyer, Alice C. (*with* Praeger, Cheryl E.) A recognition algorithm for non-generic classical groups over finite fields. (English summary) **2000i:20080**
Praeger, Cheryl E. Primitive prime divisor elements in finite classical groups. (English summary) **2000h:20090**
— *see also* **Niemeyer, Alice C., 2000i:20080**
Previtali, Andrea Maps behaving like exponentials and maximal unipotent subgroups of groups of Lie type. (English summary) **2000c:20073**
Ryan, Philip D. Counting conjugacy classes in symmetric spaces over $\mathbf{F}_q$. (English summary) **2000k:20064**
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Allen, Nancy Tufts On the spectra of certain graphs arising from finite fields. (English summary) **2000a:11175**
Behravesh, Houshang The rational character table of special linear groups. (English summary) **2000f:20070**
Blau, Harvey I. (*with* Ellers, Harald) Brauer's height zero conjecture for central quotients of special linear and special unitary groups. **2000a:20097**
Bünger, Florian (*with* Nielsen, Klaus) A matrix-decomposition theorem for $GL_n(K)$. (English summary) **2000i:20076**
Cabanes, Marc (*with* Enguehard, Michel) On blocks of finite reductive groups and twisted induction. **2000j:20022**
Curtis, Charles W. (*with* Shinoda, Ken-ichi) Unitary Kloosterman sums and the Gelfand-Graev representation of GL_2. **2000h:11086**
Ellers, Harald *see* **Blau, Harvey I., 2000a:20097**
Enguehard, Michel *see* **Cabanes, Marc, 2000j:20022**
Feng, Rong Quan (*with* Wan, Zhe-Xian) A construction of Cartesian authentication codes from geometry of classical groups. (English summary)
Fulman, Jason Hall polynomials and the fixed space of an automorphism of a finite abelian p-group. (English summary) **2000e:20090**
Geck, Meinolf Character sheaves and generalized Gelfand-Graev characters. **2000a:20024**
Gentchev, Tsanko *see* **Gentcheva, Elenka**
Gentcheva, Elenka (*with* Gentchev, Tsanko) Factorizations of the groups $\Omega_7(q)$. (English summary)
Green, James A. Discrete series characters for $GL(n, q)$. (English summary) **2000e:20013**
Griess, Robert L., Jr. (*with* Ryba, A. J. E.) Embeddings of $PGL_2(31)$ and $SL_2(32)$ in $E_8(\mathbf{C})$. **2000a:20106**
Husen, William J. Restrictions of $\Omega_m(q)$-modules to alternating groups. (English summary) **2000k:20016**
Kantor, William M. (*with* Penttila, Tim) Reconstructing simple group actions. (English summary) **2000h:20008**
— (*with* Seress, Ákos) Permutation group algorithms via black box recognition algorithms. (English summary) **2000h:20007**
(Larsen, Michael J.) *see* **Griess, Robert L., Jr., 2000a:20106**
Lawther, Ross Ian (*with* Testerman, D. M.) A_1 subgroups of exceptional algebraic groups. (English summary) **2000b:20059**
Lehrer, G. I. (*with* Springer, Tonny A.) Intersection multiplicities and reflection subquotients of unitary reflection groups. I. (English summary) **2000i:20064**
Liebeck, Martin W. Subgroups of exceptional groups. (English summary) **2000a:20104**
— Introduction to the subgroup structure of algebraic groups. **2000k:20026**
Lucchini, Andrea $(2, 3, k)$-generated groups of large rank. (English summary) **2000i:20077**
— (*with* Menegazzo, F.; Morigi, Marta) Asymptotic results for primitive permutation groups and irreducible linear groups. **2000m:20001**
— (*with* Tamburini Bellani, Maria Chiara; Wilson, John S.) Hurwitz groups of large rank. **2000m:20074**
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Malle, Gunter (*with* Matzat, B. Heinrich) ★ Inverse Galois theory. (English summary) **2000k:12004**
Matzat, B. Heinrich *see* **Malle, Gunter, 2000k:12004**
McNinch, George J. Semisimplicity in positive characteristic. **2000a:20100**
Menegazzo, F. *see* **Lucchini, Andrea et al., 2000m:20001**
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Motose, Kaoru On values of cyclotomic polynomials. IV. **2000c:11196**
Neumann, Peter M. (*with* Praeger, Cheryl E.) Derangements and eigenvalue-free elements in finite classical groups. **2000a:20153**
Nielsen, Klaus *see* **Bünger, Florian, 2000i:20076**
Ohmori, Zyozyu On the Schur indices of certain irreducible characters of finite Chevalley groups. (English summary) **2000d:20009**
Pak, Igor When and how n choose k. (English summary) **2000a:05004**
Penttila, Tim *see* **Kantor, William M., 2000h:20008**
Pham Anh Minh (*with* Ton That Tri) The first occurrence for the irreducible modules of general linear groups in the polynomial algebra. (English summary) **2000e:20029**
Pillen, Cornelius Generic patterns for extensions of simple modules for finite Chevalley groups. (English summary) **2000d:20016**
Praeger, Cheryl E. *see* **Neumann, Peter M., 2000a:20153**
Reiter, Stefan Galoisrealisierungen klassischer Gruppen. [Galois realizations of classical groups] **2000f:12003**
Renner, Lex E. Modular representations of finite monoids of Lie type. (English summary) **2000e:20071**
Ryba, A. J. E. *see* **Griess, Robert L., Jr., 2000a:20106**
Saxl, Jan Overgroups of special elements in simple algebraic groups and finite groups of Lie type. **2000h:20087**
Schaffer, Mark Twisted tensor product subgroups of finite classical groups. (English summary) **2000j:20024**
Seress, Ákos *see* **Kantor, William M., 2000h:20007**
(Serre, Jean-Pierre) *see* **Griess, Robert L., Jr., 2000a:20106**
Shank, R. James (*with* Wehlau, David L.) On the depth of the invariants of the symmetric power representations of $SL_2(\mathbf{F}_p)$. (English summary) **2000f:13010**
Shaw, Ron A property of A_7, and a maximal 3-dimensional linear section of $GL(4, 2)$. (English summary) **2000b:51007**
Shinoda, Ken-ichi *see* **Curtis, Charles W., 2000h:11086**
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Strambach, Karl (*with* Völklein, Helmut) On linearly rigid tuples. (English summary) **2000e:20075**
Sukizaki, Hideki Dade's conjecture for special linear groups in the defining characteristic. **2000i:20015**
— The McKay numbers of a subgroup of $GL(n; q)$ containing $LSL(n; q)$. **2000f:20014**
Suprunenko, I. D. Restrictions of modular irreducible representations of the special linear group with highest weights that are large relative to the characteristic to small natural subgroups are not completely reducible. (Russian. English and Russian summaries) **2000e:20072**
Tamburini Bellani, Maria Chiara *see* **Lucchini, Andrea et al., 2000m:20074**
Testerman, D. M. *see* **Lawther, Ross Ian, 2000b:20059**
Thompson, John G. (*with* Völklein, Helmut) Braid-abelian tuples in $Sp_n(K)$. (English summary) **2000f:12004**
Ton That Tri *see* **Pham Anh Minh, 2000e:20029**
Völklein, Helmut *see* **Strambach, Karl, 2000e:20075** *and* **Thompson, John G., 2000f:12004**

Wan, Zhe-Xian *see* **Feng, Rong Quan**
Wehlau, David L. *see* **Shank, R. James, 2000f:13010**
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Ye, Jiachen The Cartan invariant matrix for the finite group SL(5, 2). (English summary) **2000a:20027**

20G42 Quantum groups (quantized function algebras) and their representations [see also 16W35, 17B37, 81R50]

Bogush, A. A. On four-dimensional quantum vector parameters of q-deformed groups. (Russian. English and Russian summaries) **2000b:20061**
Fioresi, R. Quantum deformation of the flag variety. (English summary) **2000k:20065**
— Quantum deformation of the Grassmannian manifold. (English summary) **2000j:20092**
Gordon, I. G. Cohomology of quantized function algebras at roots of unity. **2000m:20078**
Letzter, Edward S. Remarks on the twisted adjoint representation of $R_q[G]$. **2000b:20062**

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Brzeziński, Tomasz (*with* Majid, Shahn) Quantum differentials and the q-monopole revisited. (English summary) **2000b:58009**
Carter, Roger W. Canonical bases, reduced words, and Lusztig's piecewise-linear function. **2000j:17016**
Catoiu, Stefan Ideals in tensor powers of the enveloping algebra $U(\mathfrak{sl}_2)$. (English summary) **2000h:17008**
Cox, Anton (*with* Erdmann, Karin) On Ext^2 between Weyl modules for quantum GL_n. **2000m:20069**
Erdmann, Karin *see* **Cox, Anton, 2000m:20069**
Gordon, I. G. Quantised function algebras at roots of unity and path algebras. (English summary) **2000j:17019**
Jakobsen, Hans Plesner (*with* Jensen, Anders; Jøndrup, Søren; Zhang, Hechun) Quadratic algebras of type AIII. II. (English summary) **2000i:17024**
— (*with* Jøndrup, Søren; Zhang, Hechun) Quadratic algebras of type AIII. III. (English summary) **2000i:17025**
Jensen, Anders *see* **Jakobsen, Hans Plesner et al., 2000i:17024**
Jøndrup, Søren *see* **Jakobsen, Hans Plesner et al., 2000i:17024** *and* **2000i:17025**
Koornwinder, Tom H. (*with* Bais, F. Alexander; Muller, N. M.) Tensor product representations of the quantum double of a compact group. (English summary) **2000b:81068**
Leclerc, Bernard (*with* Thibon, Jean-Yves) Représentations induites d'algèbres de Hecke affines et singularités de R-matrices. (English and French summaries) [Induced representations of affine Hecke algebras and singularities of R-matrices] **2000i:20007**
Lusztig, George Total positivity and canonical bases. (English summary) **2000j:20089**
— Aperiodicity in quantum affine $\mathfrak{gl}_n$. **2000i:17027**
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Radko, Olga A bicovariant differential algebra of a quantum group. (English summary) **2000b:58013**
Soergel, Wolfgang Character formulas for tilting modules over quantum groups at roots of one. **2000i:17040**
Thibon, Jean-Yves *see* **Leclerc, Bernard, 2000i:20007**
Zhang, Hechun *see* **Jakobsen, Hans Plesner et al., 2000i:17024** *and* **2000i:17025**

20G45 Applications to physics

Items with secondary classifications in 20G45

Chen, Jin-Quan *see* **Fan, Peng-Dong et al., 2000j:82039**
Draayer, Jerry P. *see* **Fan, Peng-Dong et al., 2000j:82039**
Fan, Peng-Dong (*with* Chen, Jin-Quan; Draayer, Jerry P.) Algebraic expressions for symmetry-adapted functions of the icosahedral group in spinor space. (English summary) **2000j:82039**
Godunov, Sergeĭ Konstantinovich (*with* Mikhaĭlova, T. Yu.) ★ Представления группы вращений и сферические функции. (Russian. Russian summary) [Representations of the rotation group, and spherical functions] **2000e:22010**
Mikhaĭlova, T. Yu. *see* **Godunov, Sergeĭ Konstantinovich, 2000e:22010**
Nowosad, Pedro Characterization of the even principal series representations of $\mathrm{SL}_2(\mathbf{R})$ on the Poincaré half-plane. (English summary) **2000c:22011**
Stepanov, Aleksei Vladimirovich (*with* Vavilov, N. A.) Decomposition of transvections: a theme with variations. (English summary) **2000m:20076**
Vavilov, N. A. *see* **Stepanov, Aleksei Vladimirovich, 2000m:20076**

20G99 None of the above, but in this section

Du, Jie (*with* Rui, Hebing) Borel type subalgebras of the q-Schur^m algebra. **2000a:20108**
Hegedűs, Pál Regular subgroups of the affine group. **2000m:20079**
Hull, M. Eileen (*with* Renner, Lex E.) The centraliser of a semisimple element on a reductive algebraic monoid. **2000i:20081**
Renner, Lex E. *see* **Hull, M. Eileen, 2000i:20081**
Rui, Hebing *see* **Du, Jie, 2000a:20108**

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Altseimer, Christine A characterisation of $\mathrm{PSp}(4, K)$. (English summary) **2000a:20070**
Benoist, Yves Groupes linéaires à valeurs propres positives et automorphismes des cônes convexes. (English and French summaries) [Linear groups with positive eigenvalues and automorphisms of convex cones] **2000f:22024**
Berrick, A. J. (*with* Dwyer, William) The spaces that define algebraic K-theory. (English summary) **2000g:55014**
Dwyer, William *see* **Berrick, A. J., 2000g:55014**
Junker, Markus Completeness in Zariski groups. (English summary) **2000j:14075**
Putcha, Mohan S. Hecke algebras and semisimplicity of monoid algebras. (English summary) **2000j:20010**

20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

Costa, Douglas L. (*with* Keller, Gordon E.) Power residue symbols and the central sections of $\mathrm{SL}(2, A)$. (English summary) **2000b:20063**
Grunewald, Fritz (*with* Schwermer, Joachim) On the concept of level for subgroups of SL_2 over arithmetic rings. (English summary) **2000j:20093**
Hsu, Tim Permutation techniques for coset representations of modular subgroups. **2000b:20064**
Keller, Gordon E. *see* **Costa, Douglas L., 2000b:20063**
Kouyama, Naoto The subgroups of index 7 in $\mathrm{SL}_2(\mathbf{Z})$. **2000a:20109**
Mason, A. W. Free quotients of congruence subgroups of the Serre groups and unipotent matrices. (English summary) **2000a:20110**
— Free quotients of infinite rank of GL_2 over Dedekind domains. (English summary) **2000b:20065**
Mozes, Shahar On the congruence subgroup problem for tree lattices. (English summary) **2000j:20094**
Schwermer, Joachim *see* **Grunewald, Fritz, 2000j:20093**

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Alperin, Roger C. Rationals and the modular group. **2000j:11054**
Biswas, Indranil (*with* Mitra, Mahan; Nag, Subhashis) Thurston boundary of Teichmüller spaces and the commensurability modular group. (English summary) **2000b:32030**
Henn, Hans-Werner The cohomology of $\mathrm{SL}(3, \mathbf{Z}[1/2])$. (English summary) **2000g:20087**
Ma, Lizhuang *see* **Shi, Kaida**
Mitra, Mahan *see* **Biswas, Indranil et al., 2000b:32030**
Nag, Subhashis *see* **Biswas, Indranil et al., 2000b:32030**
Shalom, Yehuda Expander graphs and amenable quotients. (English summary) **2000h:20059**
Shi, Kaida (*with* Ma, Lizhuang) New results on the regular polytopes and the theory of N-dimensional finite rotation group. (English summary)

20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

Bizim, Osman *see* **Cangül, İsmail Naci, 2000g:20099**
Bujalance, Emilio (*with* Conder, Marston) On cyclic groups of automorphisms of Riemann surfaces. (English summary) **2000g:20098**
Button, J. O. All Fuchsian Schottky groups are classical Schottky groups. (English summary) **2000e:20078**
Cangül, İsmail Naci (*with* Bizim, Osman) Normal subgroups of Hecke groups on sphere and torus. (English summary) **2000g:20099**
— *see also* **Yılmaz, Nihal**
Conder, Marston *see* **Bujalance, Emilio, 2000g:20098**
Durnev, V. G. On some subgroups of Fuchsian groups. (Russian) **2000m:20080**
Gu, Guang Ze *see* **Li, Xiao Pei et al.**
Inoue, Katsumi[1] A remark on the elementariness of Möbius groups in several dimension. (*see* **2000b:57001**)
Jiang, Yue Ping Elementary subgroups of Möbius groups in higher dimensions. (Chinese. English and Chinese summaries)
Klimenko, Elena (*with* Sakuma, Makoto) Two-generator discrete subgroups of $\mathrm{Isom}(\mathbf{H}^2)$ containing orientation-reversing elements. (English summary) **2000a:20111**
Kopský, Vojtěch Classification of Euclidean groups in arbitrary dimensions. (English summary) (*see* **2000c:81010**)
Kovačević, Nataša Möbius-like groups of homeomorphisms of the circle. (English summary) **2000c:20074**
— Examples of Möbius-like groups which are not Möbius groups. (English summary) **2000c:20075**
Krzyż, Jan G. Fuchsian groups isomorphism, conformally natural quasiconformal extension and harmonic mappings. (English summary) **2000g:20100**
Li, Xiao Pei (*with* Wang, Xian Tao; Gu, Guang Ze) Convergence groups and their commutator subgroups. (Chinese. English and Chinese summaries)
Maclachlan, C. (*with* Martin, Gaven J.) 2-generator arithmetic Kleinian groups. (English summary) **2000m:20081**
Martin, Gaven J. *see* **Maclachlan, C., 2000m:20081**
Näätänen, Marjatta *see* **Nakanishi, Toshihiro et al., 2000m:20082**
Nakanishi, Toshihiro (*with* Näätänen, Marjatta; Rosenberger, Gerhard) Arithmetic Fuchsian groups of signature $(0; e_1, e_2, e_3, e_4)$ with $2 \le e_1 \le e_2 \le e_3$, $e_4 = \infty$. **2000m:20082**
Rosenberger, Gerhard *see* **Nakanishi, Toshihiro et al., 2000m:20082**
Sakuma, Makoto *see* **Klimenko, Elena, 2000a:20111**
Shvartsman, O. V. Reflectivity of Bianchi groups. (Russian) **2000b:20092**
Wang, Xian Tao *see* **Li, Xiao Pei et al.**
Wilson, John S. Simple images of triangle groups. **2000j:20095**
Yılmaz, Nihal (*with* Cangül, İsmail Naci) The normaliser of the modular group in the Picard group. (English summary)
Zimmerman, Jay The symmetric genus of 2-groups. **2000f:20081**

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Anantharaman-Delaroche, Claire C^*-algèbres de Cuntz-Krieger et groupes fuchsiens. (English summary) [Cuntz-Krieger C^*-algebras and Fuchsian groups] **2000k:46093**
Corrales, C. (*with* Gamboa, J. M.; Gromadzki, Grzegorz) Automorphisms of Klein surfaces with fixed points. **2000d:30069**
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20H15 Other geometric groups, including crystallographic groups [see also 51–XX, especially 51F15, and 82D25]

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Rockmore, Daniel N. (*with* Tan, Ki-Seng; Beals, Robert) Deciding finiteness for matrix groups over function fields. (English summary) **2000g:20101**
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Stephan, Jérôme On arithmetic hyperbolic links. (English summary) **2000e:57015**

20H30 Other matrix groups over finite fields

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20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Bieri, Robert (*with* Geoghegan, Ross) Kernels of actions on non-positively curved spaces. **2000i:20083**
Bokor, Imre (*with* Hilton, Peter) A push-out construction for groups with operators. (English summary) **2000e:20080**
Fujiwara, Koji The second bounded cohomology of an amalgamated free product of groups. (English summary) **2000j:20098**
Geoghegan, Ross *see* **Bieri, Robert, 2000i:20083**
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Inassaridze, Niko Relationship of non-abelian tensor products and non-abelian homology of groups with Whitehead's gamma functor. (English and Georgian summaries) **2000a:20114**
Kappe, Luise-Charlotte Nonabelian tensor products of groups: the commutator connection. (English summary) **2000i:20084**
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Alp, Murat Characterization of crossed corner. (English summary) **2000g:18007**
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Bouc, Serge Le complexe de chaînes d'un G-complexe simplicial acyclique. (English summary) [The chain complex of an acyclic simplicial G-complex] **2000k:18009**
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Crossley, M. D. (*with* Whitehouse, Sarah) On conjugation invariants in the dual Steenrod algebra. (English summary) **2000m:55022**
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Ellis, Graham On the capability of groups. (English summary) **2000e:20053**
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Fine, Benjamin L. (*with* Peluso, Ada) Amalgam decompositions for one-relator groups. (English summary) **2000h:20040**
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20J06 Cohomology of groups

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Burichenko, Vladimir P. Extensions of cocycles in BN-pairs. **2000e:20081**
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Choi, Eunmi Transfer theorems for finite groups. (English summary) **2000e:20082**
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Plakhta, L. P. Integral cohomology of the symmetric group Σ_4 and the alternating group A_6. (Ukrainian. English and Russian summaries) **2000a:20117**
Salvetti, Mario *see* **De Concini, Corrado, 2000e:20083**
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Henn, Hans-Werner The cohomology of SL(3, **Z**[1/2]). (English summary) **2000g:20087**
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Priddy, Stewart *see* **Martino, John, 2000a:55037**
Ribes, Luis ★ Introduction to profinite groups and Galois cohomology. **2000c:20047**
Robinson, Geoffrey R. Arithmetical properties of blocks. **2000a:20020**
Russell, Lee *see* **Martin, Stuart, 2000i:20019**
Scott, Leonard L. *see* **Cline, Edward et al., 2000i:20021**
Tan, Kai Meng On the principal blocks of $F\mathfrak{S}_{11}$ and $F\mathfrak{S}_{12}$ over a field of characteristic 3. (English summary) **2000k:20015**
Uemura, Takeshi *see* **Kawazumi, Nariya, 2000a:57034**

20J15 Category of groups

Alp, Murat Pullbacks of crossed modules and cat^1-groups. (English summary) **2000a:20118**
Baues, Hans-Joachim (*with* Pirashvili, Teimuraz) Quadratic endofunctors of the category of groups. **2000b:20073**
Pirashvili, Teimuraz *see* **Baues, Hans-Joachim, 2000b:20073**

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Alp, Murat Special cases of cat^1-groups. (English summary) **2000i:18002**
Casacuberta, Carles (*with* Rodríguez, José L.; Scevenels, Dirk) Singly generated radicals associated with varieties of groups. (English summary) **2000h:20044**
Descheemaeker, An (*with* Malfait, Wim) On the uniqueness of roots in virtually nilpotent groups. (English summary) **2000h:20069**
Magidin Viso, Arturo Dominions in varieties of nilpotent groups. (English summary) **2000m:20053**
Malfait, Wim *see* **Descheemaeker, An, 2000h:20069**
Rodríguez, José L. *see* **Casacuberta, Carles et al., 2000h:20044**
Scevenels, Dirk *see* **Casacuberta, Carles et al., 2000h:20044**

20J99 None of the above, but in this section

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O'Sullivan, Niamh The genus and localization of finitely generated (torsion-free abelian)-by-finite groups. (English summary) **2000m:20067**
Talelli, Olympia Periodic cohomology and free and proper actions on $\mathbf{R}^n \times S^m$. **2000i:57058**
Visscher, Matthew P. On the nilpotency class and solvability length of nonabelian tensor products of groups. (English summary) **2000k:20041**

20Kxx Abelian groups

20K01 Finite abelian groups

Amin, Khalid The factorization of abelian groups. (English summary) **2000f:20088**
— The Hajós factorization of elementary 3-groups. (English summary) **2000k:20069**
Corrádi, Keresztély (*with* Sands, Arthur D.; Szabó, Sándor) Factoring by simulated subsets. II. (English summary) **2000k:20070**
Logachëv, O. A. (*with* Sal'nikov, A. A.; Yashchenko, V. V.) On finite abelian groups with a nonsingular quadratic form. (Russian. Russian summary) **2000g:20105**
Sal'nikov, A. A. *see* **Logachëv, O. A. et al., 2000g:20105**
Sands, Arthur D. *see* **Corrádi, Keresztély et al., 2000k:20070**
Szabó, Sándor Groups with the Rédei property. (English summary) **2000e:20084**
— Factoring by cyclic and simulated subsets. (English summary) **2000g:20106**
— (*with* Ward, Coburn) Factoring groups having periodic maximal subgroups. (English summary) **2000m:20088**
— *see also* **Corrádi, Keresztély et al., 2000k:20070**
Takegahara, Yugen On Butler's unimodality result. (English summary) **2000j:20101**
Wang, Jun-xin A characteristic of finite abelian groups. (English and Chinese summaries)
Ward, Coburn *see* **Szabó, Sándor, 2000m:20088**
Yashchenko, V. V. *see* **Logachëv, O. A. et al., 2000g:20105**

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Amin, Khalid On the Hajós property for direct product of groups. (English summary)
Baik, Young Gheel (*with* Feng, Yan-Quan; Sim, Hyo-Seob; Xu, Mingyao) On the normality of Cayley graphs of abelian groups. (English summary) **2000a:05102**
Biggs, Norman Chip-firing and the critical group of a graph. (English summary) **2000h:05103**
Diaconis, Persi W. (*with* Graham, Ronald L.) The graph of generating sets of an abelian group. **2000f:20124**
Feng, Yan-Quan *see* **Baik, Young Gheel et al., 2000a:05102**
Fulman, Jason Hall polynomials and the fixed space of an automorphism of a finite abelian p-group. (English summary) **2000e:20090**
Gao, Wei Dong (*with* Hamidoune, Yahya Ould) On additive bases. **2000b:11020**
Graham, Ronald L. *see* **Diaconis, Persi W., 2000f:20124**
Grishko, Yu. V. (*with* Protasov, Igor Vladimirovich) Symmetric colorings of finite abelian groups. (Ukrainian summary)
Hagita, Mariko Foldings of difference sets in abelian groups. (English summary) **2000g:05033**
Hamidoune, Yahya Ould *see* **Gao, Wei Dong, 2000b:11020**
Jozsa, Richard Quantum algorithms and the Fourier transform. (English summary) **2000c:81045**
Li, Cai Heng Finite abelian groups with the m-DCI property. (English summary) **2000e:05084**
Lipkin, Edith Subset sums of sets of residues. (English and French summaries) **2000e:11011**
Protasov, Igor Vladimirovich *see* **Grishko, Yu. V.**
Richman, Fred (*with* Walker, Elbert A.) Subgroups of p^5-bounded groups. (English summary) **2000m:13035**
Schulte, Jörg Über die Jordansche Verallgemeinerung der Eulerschen Funktion. (English summary) [On Jordan's generalization of the Euler function] **2000j:11007**
Sim, Hyo-Seob *see* **Baik, Young Gheel et al., 2000a:05102**
Tambara, Daisuke (*with* Yamagami, Shigeru) Tensor categories with fusion rules of self-duality for finite abelian groups. (English summary) **2000b:18013**
Walker, Elbert A. *see* **Richman, Fred, 2000m:13035**
Xu, Mingyao *see* **Baik, Young Gheel et al., 2000a:05102**
Yamagami, Shigeru *see* **Tambara, Daisuke, 2000b:18013**
Zelinka, Bohdan Domination in products of circuits. (English summary) **2000c:05081**

20K10 Torsion groups, primary groups and generalized primary groups

Bekker, I. Kh. Commutative affine rings. (Russian. Russian summary) **2000h:20097**
Hill, Paul Another characterization of totally projective groups. **2000d:20071**
Holroyd, Keiko Ito Summands and valuated groups. **2000k:20071**
Mutzbauer, Otto (*with* Toubassi, Elias) Quasibases of p-groups. (English summary) **2000k:20072**
Puusemp, Peeter On the torsion subgroups and endomorphism semigroups of abelian groups. (English summary) **2000a:20119**
— A characterization of divisible and torsion abelian groups by their endomorphism semigroups. (English summary) **2000e:20085**
Richman, Fred Simply presented TAG modules. (English summary) **2000j:20102**
Toubassi, Elias *see* **Mutzbauer, Otto, 2000k:20072**

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Danchev, Peter V. Isomorphism of modular group algebras of direct sums of torsion-complete abelian p-groups. (English summary) **2000i:16053**
Eklof, Paul C. The model theory of abelian p-groups. (English summary) **2000e:03110**
Keef, Patrick Variations of purity in abelian group theory. (English summary) **2000i:20088**
Khisamiev, N. G. Constructive abelian p-groups [MR 93f:03040]. (Russian. Russian summary) (*see* **2000m:03014**)
Takegahara, Yugen On Butler's unimodality result. (English summary) **2000j:20101**

20K15 Torsion-free groups, finite rank

Albrecht, Ulrich (*with* Goeters, H. Pat) Strong $\mathscr{S}$-groups. **2000e:20086**
Chang, Yuanrung *see* **Lee, Wuyen, 2000a:20120**
Cherednikova, A. V. Quasi-endomorphism rings of strongly indecomposable torsion-free abelian groups of rank 3. (Russian. Russian summary) **2000c:20079**
Fuchs, László[1] (*with* Viljoen, G.) Valuated Butler groups of special type. **2000g:20107**
Goeters, H. Pat (*with* Ullery, William) Quasi-balanced torsion-free groups. (English summary) **2000b:20074**

— *see also* **Albrecht, Ulrich**, **2000e:20086**
Lee, Wuyen (*with* Chang, Yuanrung) On a chain of Butler groups. (English summary) **2000a:20120**
Metelli, Claudia *see* **de Vivo, Clorinda**, **2000c:20081**
Mutzbauer, Otto Endomorphism rings of torsion-free abelian groups of finite rank. (English summary) **2000c:20080**
Nongxa, Loyiso G. Cyclic regulating balanced Butler groups. (English summary) **2000h:20098**
O'Meara, K. C. (*with* Vinsonhaler, C.) Separative cancellation and multiple isomorphism in torsion-free abelian groups. **2000j:20103**
Scevenels, Dirk On decomposable pseudofree groups. (English summary) **2000f:20089**
Ullery, William *see* **Goeters, H. Pat**, **2000b:20074**
Viljoen, G. *see* **Fuchs, László[1]**, **2000g:20107**
Vinsonhaler, C. *see* **O'Meara, K. C.**, **2000j:20103**
de Vivo, Clorinda (*with* Metelli, Claudia) Finite partition lattices and Butler groups. (English summary) **2000c:20081**

Items with secondary classifications in 20K15

Bekker, I. Kh. Commutative affine rings. (Russian. Russian summary) **2000h:20097**
Files, Steve (*with* Göbel, Rüdiger) Representations over PID's with three distinguished submodules. (English summary) **2000j:13016**
Göbel, Rüdiger *see* **Files, Steve**, **2000j:13016**
Goeters, H. Pat Duality and self-reflexive torsion-free abelian groups. (English summary) **2000c:20083**
— Duality in Noetherian integral domains. **2000g:13009**
Hamidoune, Yahya Ould (*with* Lladó, A. S.; Serra, Oriol) On subsets with small product in torsion-free groups. (English summary) **2000m:20050**
Kang, Byung Gyun Divisibility properties of group rings over torsion-free abelian groups. (English summary) **2000f:13017**
Liu, Ping An application of Fermat numbers to group theory. (Chinese. English and Chinese summaries) **2000h:11011**
Lladó, A. S. *see* **Hamidoune, Yahya Ould et al.**, **2000m:20050**
Metelli, Claudia An adjointness relation for finite partition lattices. (English summary) **2000m:06007**
Serra, Oriol *see* **Hamidoune, Yahya Ould et al.**, **2000m:20050**

20K20 Torsion-free groups, infinite rank

Bican, Ladislav Infinite rank Butler groups. (English summary) **2000c:20082**
Liu, Wei Jun *see* **Ma, Chuan Gui**
Ma, Chuan Gui (*with* Zhang, Zhao Ji) Automorphism groups of torsion-free groups of rank 2 and of torsion-free groups of rank 2 with just two automorphisms. (Chinese. English and Chinese summaries) **2000b:20075**
— (*with* Liu, Wei Jun) Torsion-free abelian groups of rank 2 with only characteristic subgroups. (Chinese. English and Chinese summaries)
Schlitt, G. Summands of dual groups. (English summary) **2000a:20121**
Zhang, Zhao Ji *see* **Ma, Chuan Gui**, **2000b:20075**

Items with secondary classifications in 20K20

Bekker, I. Kh. Commutative affine rings. (Russian. Russian summary) **2000h:20097**
Göbel, Rüdiger (*with* Shelah, Saharon) Almost free splitters. (English summary) **2000m:20092**
May, Warren Lee[2] Abelian automorphism groups of countable rank. (English summary) **2000m:20091**
Shelah, Saharon Borel Whitehead groups. (English summary) **2000i:03052**
— *see also* **Göbel, Rüdiger**, **2000m:20092**
Waldmann, Uwe Superposition for divisible torsion-free abelian groups. (English summary) (*see* **2000i:68004**)

20K21 Mixed groups

Files, Steve (*with* Wickless, William J.) Direct sums of self-small mixed groups. (English summary) **2000j:20104**
Hill, Paul (*with* Ullery, William) The transitivity of local Warfield groups. (English summary) **2000b:20076**
Loth, Peter Characterizations of Warfield groups. (English summary) **2000a:20122**
Mutzbauer, Otto (*with* Toubassi, Elias) Hulls of mixed modules with finite quotient p-rank. **2000e:20087**
Toubassi, Elias *see* **Mutzbauer, Otto**, **2000e:20087**
Ullery, William *see* **Hill, Paul**, **2000b:20076**
Wickless, William J. The Baer-Kaplansky theorem for direct sums of self-small mixed groups. (English summary) **2000m:20089**
— *see also* **Files, Steve**, **2000j:20104**

Items with secondary classifications in 20K21

Bekker, I. Kh. Commutative affine rings. (Russian. Russian summary) **2000h:20097**
Călugăreanu, Grigore, Jr. A useful category for mixed abelian groups. (English summary) **2000a:20123**
Klassen, E. D. *see* **Krylov, P. A.**, **2000j:20105**
Krylov, P. A. (*with* Klassen, E. D.) The center of the endomorphism ring of a split mixed abelian group. (Russian. Russian summary) **2000j:20105**
Mundici, Daniele (*with* Panti, Giovanni) A constructive proof that every 3-generated l-group is ultrasimplicial. (English summary) **2000g:06013**
Okuyama, Takashi On purifiable subgroups in arbitrary abelian groups. (English summary) **2000m:20090**
Panti, Giovanni *see* **Mundici, Daniele**, **2000g:06013**

20K25 Direct sums, direct products, etc.

Banakh, Taras (*with* Protasov, Igor Vladimirovich) Asymmetric partitions of abelian groups. (Russian. Russian summary) **2000h:20099**
Corrádi, Keresztély (*with* Szabó, Sándor) The size of an annihilator in a factorization. (English summary) **2000e:20088**
Kolman, Oren (*with* Shelah, Saharon) Almost disjoint pure subgroups of the Baer-Specker group. (English summary) **2000k:20073**
Protasov, Igor Vladimirovich *see* **Banakh, Taras**, **2000h:20099**
Shelah, Saharon *see* **Kolman, Oren**, **2000k:20073**
Szabó, Sándor Factoring a certain type of 2-group by subsets. (Italian summary) **2000e:20089**
— *see also* **Corrádi, Keresztély**, **2000e:20088**
Teske, Edlyn The Pohlig-Hellman method generalized for group structure computation. (English summary) **2000f:20090**
Vălcan, Dumitru Subgroups and quotient groups of abelian groups with D.S.I.P. (English summary)

Items with secondary classifications in 20K25

Cherednikova, A. V. Quasi-endomorphism rings of strongly indecomposable torsion-free abelian groups of rank 3. (Russian. Russian summary) **2000c:20079**
Files, Steve (*with* Wickless, William J.) Direct sums of self-small mixed groups. (English summary) **2000j:20104**
Holroyd, Keiko Ito Summands and valuated groups. **2000k:20071**
Mashayekhy, B. *see* **Moghaddam, Mohammad Reza R.**, **2000a:20079**
Moghaddam, Mohammad Reza R. (*with* Mashayekhy, B.) Higher Schur-multiplicator of a finite abelian group. (English summary) **2000a:20079**
O'Meara, K. C. (*with* Vinsonhaler, C.) Separative cancellation and multiple isomorphism in torsion-free abelian groups. **2000j:20103**
Scevenels, Dirk On decomposable pseudofree groups. (English summary) **2000f:20089**
Vinsonhaler, C. *see* **O'Meara, K. C.**, **2000j:20103**
Wickless, William J. The Baer-Kaplansky theorem for direct sums of self-small mixed groups. (English summary) **2000m:20089**
— *see also* **Files, Steve**, **2000j:20104**

20K27 Subgroups

Okuyama, Takashi On purifiable subgroups in arbitrary abelian groups. (English summary) **2000m:20090**
Shelah, Saharon Non-existence of universals for classes like reduced torsion free abelian groups under embeddings which are not necessarily pure. (English summary) **2000f:20091**

Items with secondary classifications in 20K27

Chun, Jang-Ho *see* **Kwak, Jin Ho et al.**, **2000c:05082**
Kwak, Jin Ho (*with* Chun, Jang-Ho; Lee, Jaeun) Enumeration of regular graph coverings having finite abelian covering transformation groups. (English summary) **2000c:05082**
Lee, Jaeun *see* **Kwak, Jin Ho et al.**, **2000c:05082**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Fulman, Jason Hall polynomials and the fixed space of an automorphism of a finite abelian p-group. (English summary) **2000e:20090**
Klassen, E. D. *see* **Krylov, P. A.**, **2000j:20105**
Krylov, P. A. (*with* Klassen, E. D.) The center of the endomorphism ring of a split mixed abelian group. (Russian. Russian summary) **2000j:20105**
May, Warren Lee[2] Abelian automorphism groups of countable rank. (English summary) **2000m:20091**

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Cherednikova, A. V. Quasi-endomorphism rings of strongly indecomposable torsion-free abelian groups of rank 3. (Russian. Russian summary) **2000c:20079**
Fel'shtyn, A. L. (*with* Hill, Richard Michael) Trace formulae, zeta functions, congruences and Reidemeister torsion in Nielsen theory. (English summary) **2000a:37007**
Hill, Richard Michael *see* **Fel'shtyn, A. L.**, **2000a:37007**
Ma, Chuan Gui (*with* Zhang, Zhao Ji) Automorphism groups of torsion-free groups of rank 2 and of torsion-free groups of rank 2 with just two automorphisms. (Chinese. English and Chinese summaries) **2000b:20075**
Mutzbauer, Otto Endomorphism rings of torsion-free abelian groups of finite rank. (English summary) **2000c:20080**
Puusemp, Peeter On the torsion subgroups and endomorphism semigroups of abelian groups. (English summary) **2000a:20119**
— A characterization of divisible and torsion abelian groups by their endomorphism semigroups. (English summary) **2000e:20085**
Schlitt, G. Summands of dual groups. (English summary) **2000a:20121**
Wickless, William J. The Baer-Kaplansky theorem for direct sums of self-small mixed groups. (English summary) **2000m:20089**
Zhang, Zhao Ji *see* **Ma, Chuan Gui**, **2000b:20075**

20K35 Extensions

Göbel, Rüdiger (*with* Shelah, Saharon) Almost free splitters. (English summary) **2000m:20092**
Gudivok, P. M. (*with* Shapochka, I. V.) On the Chernikov p-groups. (Russian. English and Ukrainian summaries) **2000f:20092**
Shapochka, I. V. *see* **Gudivok, P. M.**, **2000f:20092**
Shelah, Saharon *see* **Göbel, Rüdiger**, **2000m:20092**

Items with secondary classifications in 20K35

Fuchs, László[1] (*with* Hofmann, Karl H.) Extensions of compact abelian groups by discrete ones and their duality theory. II. **2000f:22007**
Goeters, H. Pat (*with* Ullery, William) Quasi-balanced torsion-free groups. (English summary) **2000b:20074**
Hofmann, Karl H. *see* **Fuchs, László[1]**, **2000f:22007**

Keef, Patrick Variations of purity in abelian group theory. (English summary) **2000i:20088**
Lee, Soo Teck (*with* Packer, Judith A.) K-theory for C^*-algebras associated to lattices in Heisenberg Lie groups. (English summary) **2000d:46085**
Moghaddam, Mohammad Reza R. (*with* Salemkar, Ali Reza) Characterization of varietal covering and stem groups. (English summary) **2000f:20038**
Packer, Judith A. *see* **Lee, Soo Teck, 2000d:46085**
Salemkar, Ali Reza *see* **Moghaddam, Mohammad Reza R., 2000f:20038**
Ullery, William *see* **Goeters, H. Pat, 2000b:20074**

20K40 Homological and categorical methods

Breen, Lawrence On the functorial homology of abelian groups. (English summary) **2000i:20087**
Călugăreanu, Grigore, Jr. A useful category for mixed abelian groups. (English summary) **2000a:20123**
Goeters, H. Pat Duality and self-reflexive torsion-free abelian groups. (English summary) **2000c:20083**
Keef, Patrick Variations of purity in abelian group theory. (English summary) **2000i:20088**

Items with secondary classifications in 20K40

Bican, Ladislav Infinite rank Butler groups. (English summary) **2000c:20082**
Mutzbauer, Otto (*with* Toubassi, Elias) Quasibases of p-groups. (English summary) **2000k:20072**
Prosmans, Fabienne Derived projective limits of topological abelian groups. (English summary) **2000b:22005**
Toubassi, Elias *see* **Mutzbauer, Otto, 2000k:20072**

20K45 Topological methods [see also 22A05, 22B05]

Items with secondary classifications in 20K45

Alizade, Rafail (*with* Pancar, Ali) On topology induced by Bohr compactification. (English summary) **2000i:22001**
Pancar, Ali *see* **Alizade, Rafail, 2000i:22001**
Steinberg, Benjamin Monoid kernels and profinite topologies on the free abelian group. (English summary) **2000h:20120**

20K99 None of the above, but in this section

Banakh, Taras On a cardinal group invariant related to partitions of abelian groups. (Russian. Russian summary) **2000a:20124**
Dai, Qiong (*with* Zou, Xiao Xiang; Luo, Zhu Kai) An algorithm for decomposing a finite abelian group into a direct product of p-groups. (Chinese. English and Chinese summaries) **2000f:20093**
Deng, Fang An *see* **Li, Jin Long**
Li, Jin Long (*with* Deng, Fang An) Some results on abelian groups and generalized associative BCI-algebras. (Chinese. English and Chinese summaries)
Liu, Ren Ren *see* **Zou, Xiao Xiang, 2000f:20094**
Luo, Zhu Kai *see* **Dai, Qiong et al., 2000f:20093**
Protasov, Igor Vladimirovich Monochromatic symmetric subsets in the colorings of abelian groups. (Ukrainian summary) **2000j:20106**
Zou, Xiao Xiang (*with* Liu, Ren Ren) An algorithm for decomposing a finite commutative p-group into a direct product of cyclic p-groups. (Chinese. English and Chinese summaries) **2000f:20094**
— *see also* **Dai, Qiong et al., 2000f:20093**

Items with secondary classifications in 20K99

Abdollahi, Alireza A characterization of infinite 3-abelian groups. (English summary) **2000g:20041**
Behera, Akrur (*with* Mishra, Amrutmayee) Adams completion and free group. (English summary)
Corovei, Ilie The d'Alembert functional equation on metabelian groups. (English summary) **2000g:39027**
Khisamiev, N. G. Constructive abelian groups. **2000d:03093**
Losonczy, Jozsef On matchings in groups. (English summary) **2000f:05004**
Marcja, Annalisa (*with* Toffalori, Carlo) On the elementarity of some classes of abelian-by-infinite groups. **2000f:03111**
Mishra, Amrutmayee *see* **Behera, Akrur**
Peterzil, Ya'acov (*with* Starchenko, Sergei) Definable homomorphisms of abelian groups in o-minimal structures. (English summary) **2000m:03090**
Starchenko, Sergei *see* **Peterzil, Ya'acov, 2000m:03090**
Toffalori, Carlo *see* **Marcja, Annalisa, 2000f:03111**
Trlifaj, Jan Modules over non-perfect rings—some recent concepts and results suggested by abelian group theory. (English summary) **2000m:16009**

20L05 Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05.}

Celakoski, Naum *see* **Čupona, Gorgi, (2000j:00020)**
Čupona, Gorgi (*with* Celakoski, Naum) Free groupoids with $x^n = x$. (English and Macedonian summaries) (*see* **2000j:00020**)

Items with secondary classifications in 20L05

Ardanza-Trevijano, Sergio (*with* Hernández, Luis Javier) Fundamental progroupoid and bundles with a structural category. (English summary) **2000b:55012**
Brink, Brigitte (*with* Howlett, Robert B.) Normalizers of parabolic subgroups in Coxeter groups. **2000b:20048**
Brown, Ronald Groupoids and crossed objects in algebraic topology. (English summary) **2000d:55002**
Grell, Juliana Symmetry description of OD crystal structures in group theoretical terms. (English summary) **2000h:82083**
Hernández, Luis Javier *see* **Ardanza-Trevijano, Sergio, 2000b:55012**
Howlett, Robert B. *see* **Brink, Brigitte, 2000b:20048**
Kamps, K. H. (*with* Porter, Timothy) A homotopy 2-groupoid from a fibration. (English summary) **2000c:55014**
Lawson, Mark V. Constructing inverse semigroups from category actions. (English summary) **2000a:20137**
Le Gall, Pierre-Yves Théorie de Kasparov équivariante et groupoïdes. I. (English and French summaries) [Equivariant Kasparov theory and groupoids. I] **2000f:19006**
Porter, Timothy *see* **Kamps, K. H., 2000c:55014**

20Mxx Semigroups

Items with secondary classifications in 20Mxx

(Birget, J.-C.) *see* **Algorithmic problems in groups and semigroups, 2000k:20001**
(Fong, Yuen) *see* **Semigroups, 2000k:20003**
(Guo, Yu Qi) *see* **Semigroups, 2000k:20003**
(Howie, John M.) *see* **Semigroups and applications, 2000e:20005**
(Ito, Masami[1]) *see* **Semigroups, 2000k:20003**
(Margolis, Stuart W.) *see* **Algorithmic problems in groups and semigroups, 2000k:20001**
(Meakin, John C.) *see* **Algorithmic problems in groups and semigroups, 2000k:20001**
(Ruškuc, Nikola) *see* **Semigroups and applications, 2000e:20005**
(Sapir, Mark V.) *see* **Algorithmic problems in groups and semigroups, 2000k:20001**
(Shum, Kar Ping) *see* **Semigroups, 2000k:20003**

Items listed otherwise than by author

Algorithmic problems in groups and semigroups ★ Algorithmic problems in groups and semigroups. **2000k:20001**
Conference:
Algorithmic Problems in Groups and Semigroups ★ Algorithmic problems in groups and semigroups. **2000k:20001**
Semigroups and Applications ★ Semigroups and applications. **2000e:20005**
Semigroups and its Related Topics ★ Semigroups. **2000k:20003**
Kunming ★ Semigroups. **2000k:20003**
Lincoln, NE ★ Algorithmic problems in groups and semigroups. **2000k:20001**
Semigroups ★ Semigroups. **2000k:20003**
Semigroups and applications ★ Semigroups and applications. **2000e:20005**
St. Andrews ★ Semigroups and applications. **2000e:20005**

20M05 Free semigroups, generators and relations, word problems

Anderson, James Andrew Semiretracts and the intersection of retracts. (English summary) **2000j:20107**
Ayik, H. (*with* Ruškuc, Nikola) Generators and relations of Rees matrix semigroups. (English summary) **2000h:20100**
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20M10 General structure theory

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20M11 Radical theory

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20M12 Ideal theory

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Kwon, Young In (*with* Lee, Sang Keun) On weakly prime ideals of ordered Γ-semigroups. (English summary) **2000g:20119**
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20M14 Commutative semigroups

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20M15 Mappings of semigroups

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Kepka, Tomáš *see* **Ježek, Jaroslav, 2000a:20132**
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20M17 Regular semigroups

Chattopadhyay, Soma *see* **Sen, Mridul Kanti, 2000e:20110**
Guo, Xiao Jiang *see* **Luo, Yan Feng, 2000m:20094**
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— *see also* **Wang, Li Min[3], 2000j:20119**
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— (*with* Kan, Hai Bin; Li, Yong Hua[2]) The construction of the conjugate hull of a Brandt semigroup. (Chinese. English and Chinese summaries) **2000a:20134**
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— (*with* Li, Shi Zheng; Wang, De Sheng) π-regularity of semidirect products and wreath products of monoids. (English summary) **2000c:20091**
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20M18 Inverse semigroups

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— Rational growth of a class of inverse semigroups. (English summary) **2000a:20135**
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— McAlister semigroups. (English summary) **2000b:20080**
— Constructing inverse semigroups from category actions. (English summary) **2000a:20137**
— The structure of 0-E-unitary inverse semigroups. I. The monoid case. (English summary) **2000i:20098**
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— *see also* **Wang, Li Min[3], 2000e:20103**
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Zhu, Wen The structure of G-inverse semigroups. (Chinese. English and Chinese summaries) **2000f:20109**

20M19 Orthodox semigroups

Items with secondary classifications in 20M19

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Zhou, Sheng Lin On π-orthodox $\mathscr{L}^*$-unipotent semigroups. (Chinese. English and Chinese summaries)

20M20 Semigroups of transformations, etc. [see also 47D03, 47H20, 54H15]

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Catarino, P. M. Monoids of orientation-preserving transformations of a finite chain and their presentations. (English summary) **2000g:20124**
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— Green's relations and regularity in centralizers of permutations. (English summary) **2000d:20079**
Li, Wei Min On primitive idempotents of the strong endomorphism monoid of a graph. (English summary) **2000g:20125**
Lipscomb, S. *see* **Konieczny, Janusz, 2000b:20081**
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Wang, Xiao Feng[1] *see* **Alonso, Juan Manuel et al., 2000e:20113**
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20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

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— (*with* Silva, Pedro V.) On quasi directly infinite rings. (English summary) **2000i:16068**
Putcha, Mohan S. Hecke algebras and semisimplicity of monoid algebras. (English summary) **2000j:20010**
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20M30 Representation of semigroups; actions of semigroups on sets

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Chen, Yu Qun (*with* Shum, Kar Ping) Projective and indecomposable S-acts. (English summary) **2000j:20125**
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Mel'nikov, Yu. B.[2] On the representation of the semigroup of endomorphisms of a finite group on its group algebra. (Russian. Russian summary) **2000e:20117**
Normak, Peeter Equationally compact acts: coproducts. (English summary) **2000i:20104**
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Shum, Kar Ping *see* **Chen, Yu Qun, 2000j:20125**
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Lawson, Mark V. Constructing inverse semigroups from category actions. (English summary) **2000a:20137**
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Yamada, Miyuki Representations of fundamental p-regular semigroups. (English summary) **2000f:20108**

20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Q70, 68T50]

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Kim, Youn-Hee (*with* Kim, Jae-Gyeom) Generalized state machines and generalized transformation semigroups. (English summary) **2000f:20118**
Kumar, P. Ramesh (*with* Rajan, A. R.) Expletive languages. (English summary) **2000a:20141**
— Biordered set languages in band languages. (English summary) **2000a:20142**
Nehaniv, Chrystopher L. Cascade decomposition of arbitrary semigroups. **2000i:20105**
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— (*with* Azevedo, Assis; Teixeira, Lurdes) On finitely based pseudovarieties of the form $\mathbf{V} * \mathbf{D}$ and $\mathbf{V} * \mathbf{D}_n$. (English summary) **2000k:20074**
— (*with* Steinberg, Benjamin) On the decidability of iterated semidirect products with applications to complexity. **2000j:20109**
Azevedo, Assis *see* **Almeida, Jorge et al., 2000e:20093** *and* **2000k:20074**
Bassino, Frédérique (*with* Béal, Marie-Pierre; Perrin, Dominique) Enumerative sequences of leaves and nodes in rational trees. (English summary) **2000k:68101**
Béal, Marie-Pierre *see* **Bassino, Frédérique et al., 2000k:68101**
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Carton, Olivier (*with* Perrin, Dominique) The Wadge-Wagner hierarchy of ω-rational sets. (English summary) **2000d:68078**
Chen, Chih Yuan[2] (*with* Tsai, Yen Shung) Mirror-swap words and related languages. (English summary) **2000g:68075**
Chen, Liming *see* **Jiang, Zhong Hao, 2000a:20129**
Ćirić, Miroslav *see* **Petković, Tatjana et al., 2000c:68096**
Costa, José Carlos Free profinite $\mathcal{R}$-trivial, locally idempotent and locally commutative semigroups. (English summary) **2000c:20084**
Harju, Tero (*with* Mateescu, Alexandru; Salomaa, Arto) Shuffle on trajectories: The Schützenberger product and related operations. (English summary) **2000b:68157**
Jiang, Zhong Hao (*with* Chen, Liming) The semilattices of nilextensions of left groups and their varieties. (English summary) **2000a:20129**
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Nehaniv, Chrystopher L. (*with* Rhodes, John L.) On the manner in which biological complexity may grow. (English summary) **2000f:92009**
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Raymond, Jean-François (*with* Tesson, Pascal; Thérien, Denis) An algebraic approach to communication complexity. (English summary) **2000b:68159**
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Selmi, Carla Strongly locally testable semigroups with commuting idempotents and related languages. (English summary) **2000f:68077**
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Straubing, H. (*with* Thérien, Denis; Thomas, Wolfgang) Logics for regular languages, finite monoids, and circuit complexity. **2000c:68087**
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20M50 Connections of semigroups with homological algebra and category theory

Bentz, Wolfram (*with* Bulman-Fleming, Sydney) On equalizer-flat acts. (English summary) **2000a:20143**
Bulman-Fleming, Sydney The classification of monoids by flatness properties of acts. (English summary) **2000g:20127**
— *see also* **Bentz, Wolfram, 2000a:20143**
Laan, Valdis ★ Pullbacks and flatness properties of acts. (Estonian summary)
Liu, Zhong Kui PSF monoids over which all cyclic flat right acts satisfy condition (P). (Chinese. English and Chinese summaries) **2000g:20128**
Novikov, B. V. On a weakened conjecture of Mitchell. (Russian. English summary) **2000b:20082**
— Partial cohomologies and canonic roots in semigroups. (English and Russian summaries) **2000i:20106**
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Steinberg, Benjamin Semidirect products of categories and applications. (English summary) **2000m:20096**

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Ebanks, Bruce R. Bounded solutions of n-cocycle and related equations on amenable semigroups. (English summary) **2000f:39031**
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Golchin, Akbar (*with* Renshaw, James) A flatness property of acts over monoids. (English summary) **2000i:20103**
Laan, Valdis On a generalization of strong flatness. (English summary) **2000e:20116**
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Liu, Zhong Kui *see* **Ahsan, Javed, 2000a:20140**
Normak, Peeter Equationally compact acts: coproducts. (English summary) **2000i:20104**
Otto, Friedrich Uniform decision problems for certain restricted classes of finite monoid presentations—a survey on recent undecidability results. (English summary) **2000i:68090**
Renshaw, James *see* **Golchin, Akbar, 2000i:20103**
Shum, Kar Ping *see* **Chen, Yu Qun, 2000j:20125**
Yu, Bing Jun Regular semigroups, and regular biordered sets. (Chinese. English and Chinese summaries) **2000a:20133**

20M99 None of the above, but in this section

Ahn, Sun Shin *see* **Jun, Young Bae et al., 2000j:20126**
Cao, Yong Lin The structure of semilattices of Rees matrix semigroups over monoids. (Chinese. English and Chinese summaries) **2000b:20083**
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Das, Pratyayananda Fuzzy multiplication semigroup. (English summary) **2000a:20144**
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Grigorchuk, R. I. (*with* Stepin, A. M.) On the amenability of cancellation semigroups. (Russian. Russian summary) **2000g:20129**
Grošek, Otokar Applications of Walsh-Hadamard transform to finite semigroups. (English summary) (*see* **2000k:20003**)
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Huang, Wen Ping *see* **Kuresh, S. W., 2000a:20145**
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Kehayopulu, Niovi (*with* Tsingelis, Michael) A note on fuzzy sets in semigroups. (English summary)
Kim, Hee Sik *see* **Jun, Young Bae et al., 2000j:20126**
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Kong, Xiang Zhi Normal IC*-crypto-superabundant semigroups. (Chinese. English and Chinese summaries)
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Rădescu, Eugenia η-type functions on certain semigroups. (English summary)
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Stepin, A. M. *see* **Grigorchuk, R. I., 2000g:20129**
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Wang, Li Min[3] *see* **Wang, Wei Qin**
Wang, Wei Qin (*with* Wang, Li Min[3]) An rpp-semigroup of order 729. (Chinese. English and Chinese summaries)
Xie, Ping *see* **Deng, Fang An**
Xie, Xiang Yun On prime fuzzy ideals of a semigroup. (English summary) **2000m:20098**
Zaręba, Lech On some subsemigroup of the group L_3^1 with almost a faithful parametrization. (English summary) **2000i:20107**
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Camillo, Victor P. *see* **Anderson, D. D., 2000a:16059**
Cao, Yong Lin On weak commutativity of po-semigroups and their semilattice decompositions. (English summary) **2000b:06044**
Dekov, Deko V. Deciding embeddability of partial groupoids into semigroups. **2000d:20081**
Dudek, Wiesław A. (*with* Mukhin, Vladimir V.) On topological n-ary semigroups. (English summary)
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Gelashvili, K. Rays and their algebraic-limiting properties in a monoid of special type. (English and Georgian summaries) **2000m:54049**
Gubeladze, Joseph *see* **Bruns, Winfried, 2000e:52015**
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Jun, Young Bae (*with* Xin, Xiao Long; Roh, Eun Hwan) A class of algebras related to BCI-algebras and semigroups. (English summary) **2000b:06056**
— Implicative ordered filters of implicative semigroups. (English summary) **2000c:06030**
Kehayopulu, Niovi A note on left [resp. right] simple poe-semigroups. (English summary)
— A note on regular and left duo poe-semigroups. (English summary)
— A note on poe-semigroups with idempotent ideal elements. (English summary)
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Mustafin, T. G. The stability theory of polygons [MR 90b:03047]. (*see* **2000h:03007**)
Ramana Murty, P. V. (*with* Shum, Kar Ping) On negatively ordered implicative semigroups. (English summary) **2000i:06029**
Riley, David M. (*with* Wilson, Mark C.) Associative algebras satisfying a semigroup identity. (English summary) **2000j:16037**
Rittatore, A. Algebraic monoids and group embeddings. (English summary) **2000a:14056**
Roh, Eun Hwan *see* **Jun, Young Bae et al., 2000b:06056**
Romano, Daniel Avraám A construction of completely prime subsets associated with idempotents of a semigroup with apartness. (English summary) **2000k:03146**
— *see also* **Milosevic, Radoslav, 2000b:03220**
Salïĭ, V. N. *see* **Bogomolov, A. M., 2000i:05001**
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Shum, Kar Ping *see* **Ramana Murty, P. V., 2000i:06029**
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Zhou, Han Ce The least filters in po-semigroups. (Chinese. English and Chinese summaries)
Zou, Ting Rong Fuzzy implication algebras, BCK algebras and implicative semigroups. (Chinese. English and Chinese summaries)

20Nxx Other generalizations of groups

20N02 Sets with a single binary operation (groupoids)

Arworn, Sr. (*with* Denecke, Klaus) Hyperidentities and hypersubstitutions in the variety of symmetric, idempotent, entropic groupoids. (English summary) **2000m:20099**
Celakoski, Naum *see* **Čupona, Gorgi, 2000a:20146**
Chang, Yan Xun The existence of a large set of idempotent quasigroups of order 62. (English summary) **2000m:20100**
Cho, Jung R. (*with* Ježek, Jaroslav; Kepka, Tomáš) Paramedial groupoids. **2000e:20118**
— (*with* Ježek, Jaroslav; Kepka, Tomáš) Simple paramedial groupoids. **2000e:20119**
Čupona, Gorgi (*with* Celakoski, Naum) Free groupoids with $(xy)^2 = x^2y^2$. (English and Macedonian summaries)
— (*with* Celakoski, Naum) Free groupoids with $xy^2 = xy$. (English and Macedonian summaries) **2000a:20146**
Dekov, Deko V. Deciding embeddability of partial groupoids into semigroups. **2000d:20081**
Denecke, Klaus *see* **Arworn, Sr., 2000m:20099**
Drápal, Aleš Monogenerated LD-groupoids and their defining relations. (English summary) **2000j:20127**
El Bashir, Robert (*with* Ježek, Jaroslav; Kepka, Tomáš) Simple zeropotent paramedial groupoids are balanced. (English summary)
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Gałuszka, J. Varieties of idempotent groupoids with small clones. (English summary) **2000j:20128**
Izbash, Vladimir I. On automorphisms of the Cartesian square of a groupoid. (English summary)
Ježek, Jaroslav (*with* Kepka, Tomáš) The equational theory of paramedial cancellation groupoids. **2000m:20101**
— *see also* **Cho, Jung R. et al., 2000e:20118;2000e:20119** *and* **El Bashir, Robert et al.**
Kepka, Tomáš *see* **Cho, Jung R. et al., 2000e:20118;2000e:20119;Ježek, Jaroslav, 2000m:20101** *and* **El Bashir, Robert et al.**
Khadzhiev, Dzhavvat On prime and semiprime radicals of elements of l-groupoids. (Russian. English and Uzbek summaries) **2000g:20130**

Korobar-Tanevska, Dorka *see* **Trpenovski, Branko**, (2000j:00020)
Phillips, J. D. Inverse property, flexible loops. (Italian summary)
Pledger, K. E. Internal direct products of groupoids. (English summary) **2000g:20131**
Rajan, A. R. Ordered groupoids and normal categories. (*see* **2000k:20003**)
Richman, Fred (*with* Walker, Elbert A.) Some group theoretic aspects of t-norms. (English summary)
Rodinò, Nicola *see* **Freni, Domenico**, **2000f:20120**
Roszkowska-Lech, Barbara Subdirectly irreducible symmetric idempotent and entropic groupoids. **2000i:20108**
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Bethke, Inge (*with* Klop, Jan Willem; de Vrijer, Roel) Extending partial combinatory algebras. (English summary) **2000m:03041**
Cho, Jung R. (*with* Dudek, Józef) Numbers implying algebraic structures. (English summary) **2000g:08004**
Dudek, Józef *see* **Cho, Jung R.**, **2000g:08004**
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— (*with* Marković, P.; Maróti, M.; McKenzie, Ralph N.) The variety generated by tournaments. **2000k:05127**
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Khadzhiev, Dzhavvat (*with* Shamilev, T. M.) Lattice-ordered groupoids and their prime spectrums. **2000b:06066**
Klop, Jan Willem *see* **Bethke, Inge et al.**, **2000m:03041**
Marković, P. *see* **Ježek, Jaroslav et al.**, **2000k:05127**
Maróti, M. *see* **Ježek, Jaroslav et al.**, **2000k:05127**
McKenzie, Ralph N. *see* **Ježek, Jaroslav et al.**, **2000k:05127**
Shamilev, T. M. *see* **Khadzhiev, Dzhavvat**, **2000b:06066**
Szczerba, Marek Representation theorems for residuated groupoids. (English summary) **2000b:03108**
de Vrijer, Roel *see* **Bethke, Inge et al.**, **2000m:03041**

20N05 Loops, quasigroups [see also 05Bxx]

Adeniran, John Olusola On the Bryant-Schneider group of a conjugacy closed loop. (English summary) **2000h:20121**
Basarab, A. S. Generalized Moufang G-loops. (English summary)
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Beg, Afzal Left loops with generalized left Bol identity. (English summary)
Belyavskaya, Galina B. Centrally isotopic quasigroups. (English summary)
Chein, Orin Moufang loops of order $2m$, m odd. (English summary) **2000f:20121**
Dudek, Wiesław A. Quadratical quasigroups. (English summary)
Ealy, C. E., Jr. On the genus of finite loops. (English summary) (*see* **2000k:05006**)
Gabrieli, Elisabetta (*with* Im, Bokhee; Karzel, Helmut) Webs related to K-loops and reflection structures. (English summary) **2000j:20129**
Goodaire, Edgar G. (*with* May, Sean; Raman, Maitreyi) ★ The Moufang loops of order less than 64. **2000a:20147**
— (*with* Polcino Milies, César) More on the unit loop of an alternative loop ring. (English and French summaries) **2000j:20130**
Im, Bokhee (*with* Karzel, Helmut) Centralizers of certain matrices relative to the operation related to a K-loop. (English summary) **2000g:20132**
— *see also* **Gabrieli, Elisabetta et al.**, **2000j:20129**
Issa, A. Nourou Gyrogroups and homogeneous loops. (English summary) **2000k:20078**
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Jamal, Ena *see* **Rajah, Andrew**, **2000g:20134**
Jiménez, Rolando (*with* Sabinin, Lev V.; Sabinina, L. L.) On C^1-smooth commutative Moufang loops and distributive quasigroups. (English and Russian summaries) (*see* **2000m:53004**)
Johnson, Corlis Powell The construction of GDQ-algebras from quasigroups with sharply transitive automorphism groups. (English summary) **2000h:20122**
Karzel, Helmut *see* **Im, Bokhee**, **2000g:20132** *and* **Gabrieli, Elisabetta et al.**, **2000j:20129**
Keedwell, A. D. Crossed-inverse quasigroups with long inverse cycles and applications to cryptography. (English summary) **2000h:20123**
Kirnasovs'kiĭ, O. Yu. (*with* Sevast'yanov, S. V.) About some computer investigation of the endomorphisms of the linear isotopes of small order non-cyclic groups. (English summary)
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Kreuzer, Alexander Algebraische Struktur der relativistischen Geschwindigkeitsaddition. [Algebraic structure of the relativistic velocity addition] **2000j:20131**
Kunen, Kenneth G-loops and permutation groups. (English summary) **2000j:20133**
— The structure of conjugacy closed loops. (English summary) **2000j:20132**
Kurusa, Árpád Local geometric loops. (English and Serbo-Croatian summaries) **2000d:20082**
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Larue, David M. Left-distributive idempotent algebras. **2000g:20133**
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Gentile, Giuseppe Algebraic and geometric automorphisms of hypergroupoids. (English summary) **2000g:20135**
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— *see also* **Sultana, Nusrat**
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— (*with* Singh, Tajinder Pal) Fuzzy G-equivalences and G-congruences on a groupoid under semibalanced maps. (English summary)
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— (*with* Kim, Youn-Hee; Kim, Jae-Gyeom) TL-subgroups having the property $(*)$. (English summary)
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20N99 None of the above, but in this section

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20P05 Probabilistic methods in group theory [see also 60Bxx]

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22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–01 Instructional exposition (textbooks, tutorial papers, etc.)

Chevalley, Claude ★ Theory of Lie groups. I. (English summary) **2000m:22001**
Huang, Jing-Song ★ Lectures on representation theory. (English summary) **2000m:22002**
Lusztig, George A survey of group representations.

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Ibragimov, N. Kh. ★ Elementary Lie group analysis and ordinary differential equations. (English summary) **2000f:34007**
Mikhaĭlova, T. Yu. *see* **Godunov, Sergeĭ Konstantinovich, 2000e:22010**
Viswanath, M. K. The geometry and structure of the group Sp(2, **R**). (English summary) **2000a:22009**

22–02 Research exposition (monographs, survey articles)

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Shalom, Yehuda Random ergodic theorems, invariant means and unitary representation. **2000i:22006**
Shelstad, Diana *see* **Kottwitz, Robert E., 2000k:22024**
Varadarajan, V. S. ★ An introduction to harmonic analysis on semisimple Lie groups. (English summary) **2000m:22011**
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22–03 Historical (must also be assigned at least one classification number from Section 01)

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Remus, Dieter The rôle of W. Wistar Comfort in the theory of topological groups. (English summary) **2000k:22004**
(Schur, Issai) *see* **Slodowy, P., 2000i:01032**
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(Weyl, Hermann) *see* **Slodowy, P., 2000i:01032**

22–06 Proceedings, conferences, collections, etc.

(Adams, Jeffrey) *see* **Representation theory of Lie groups, 2000j:22001**
(Vogan, David A., Jr.) *see* **Representation theory of Lie groups, 2000j:22001**

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Automorphic forms on Sp(2; R) and SU(2, 2) ★ Automorphic forms on Sp(2; **R**) and SU(2, 2). II. **2000k:22001**
Park City, UT ★ Representation theory of Lie groups. **2000j:22001**
Representation theory of Lie groups ★ Representation theory of Lie groups. **2000j:22001**
School:
  Representation Theory of Lie Groups ★ Representation theory of Lie groups. **2000j:22001**
Symposium:
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Items with secondary classifications in 22–06

(Dani, S. G.) *see* **Lie groups and ergodic theory, 2000b:00011**
(Heyer, Herbert) *see* **Analysis on infinite-dimensional Lie groups and algebras**
(Marion, Jean A.) *see* **Analysis on infinite-dimensional Lie groups and algebras**

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Analysis on infinite-dimensional Lie groups and algebras ★ Analysis on infinite-dimensional Lie groups and algebras.
Colloquium:
  Analysis on Infinite-Dimensional Lie Groups and Algebras ★ Analysis on infinite-dimensional Lie groups and algebras.
Colloquium: (*cont'd.*)
  Lie Groups and Ergodic Theory ★ Lie groups and ergodic theory. **2000b:00011**
Lie groups and ergodic theory ★ Lie groups and ergodic theory. **2000b:00011**
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22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80.}

22A05 Structure of general topological groups

Alizade, Rafail (*with* Pancar, Ali) On topology induced by Bohr compactification. (English summary) **2000i:22001**
Comfort, William Wistar (*with* Remus, Dieter) Correction to: "Long chains of topological group topologies—a continuation" [Topology Appl. **75** (1997), no. 1, 51–79; MR 99a:22002]. **2000h:22002**
Dikranjan, Dikran Generators of topological groups. (English summary) **2000m:22004**
— Countably compact groups satisfying the open mapping theorem. (English summary) **2000m:22005**
— (*with* Tkachenko, Mikhail G.; Tkachuk, Vladimir V.) Topological groups with thin generating sets. (English summary) **2000m:22003**
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— *see also* **Hernández, Salvador et al., 2000k:22002**
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Hattori, Yasunao Enlarging the convergence on the real line via metrizable group topologies. (English summary) **2000f:22001**
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— *see also* **Galindo, Jorge, 2000d:22001**
Macario, Sergio *see* **Hernández, Salvador et al., 2000k:22002**
Morris, Sidney A. (*with* Obraztsov, V. N.) Nondiscrete topological groups with many discrete subgroups. (English summary) **2000b:22001**
— (*with* Obraztsov, V. N.) Embedding free amalgams of discrete groups in non-discrete topological groups. (English summary) **2000k:22003**
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Pancar, Ali *see* **Alizade, Rafail, 2000i:22001**
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Remus, Dieter The rôle of W. Wistar Comfort in the theory of topological groups. (English summary) **2000k:22004**
— *see also* **Comfort, William Wistar, 2000h:22002**
Tatsuuma, Nobuhiko Topological groups of inductive limits of topological groups. (Japanese) **2000f:22002**
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22A20 Analysis on topological semigroups

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22A26 Topological semilattices, lattices and applications [see also 06B30, 06B35, 06F30]

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22A30 Other topological algebraic systems and their representations

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22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

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22B10 Structure of group algebras of LCA groups

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22C05 Compact groups

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22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

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22D10 Unitary representations of locally compact groups

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Kaniuth, Eberhard *see* **Archbold, Robert J., 2000k:22007**
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Neeb, Karl-Hermann Operator-valued positive definite kernels on tubes. (English summary) **2000c:22002**
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22D12 Other representations of locally compact groups

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22D15 Group algebras of locally compact groups

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Biane, Philippe Quantum Markov processes and group representations. (English summary) **2000k:81156**
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22D20 Representations of group algebras

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Bais, F. Alexander *see* **Koornwinder, Tom H. et al., 2000b:81068**
Koornwinder, Tom H. (*with* Bais, F. Alexander; Muller, N. M.) Tensor product representations of the quantum double of a compact group. (English summary) **2000b:81068**
Muller, N. M. *see* **Koornwinder, Tom H. et al., 2000b:81068**

22D25 C^*-algebras and W^*-algebras in relation to group representations [see also 46Lxx]

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Fang, Xiaochun The invariant continuous-trace C^*-algebras by the actions of compact abelian groups. (English summary) **2000a:46113**
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Kumjian, Alexander (*with* Muhly, Paul S.; Renault, Jean N.; Williams, Dana P.) The Brauer group of a locally compact groupoid. (English summary) **2000b:46122**
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Landsman, N. P. Twisted Lie group C^*-algebras as strict quantizations. (English summary) **2000j:81127**
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Lee, Soo Teck (*with* Packer, Judith A.) K-theory for C^*-algebras associated to lattices in Heisenberg Lie groups. (English summary) **2000d:46085**
Maghfoul, Mohamed Semi-exactitude du bifoncteur de Kasparov équivariant. (English summary) [Semi-exactness of Kasparov equivariant bifunctors] **2000f:46088**
Milnes, Paul Simple C^*-crossed products from discrete 5-dimensional nilpotent groups. (English summary) **2000e:46072**
Morchio, G. *see* **Cavallaro, S. et al., 2000j:81116**
Muhly, Paul S. *see* **Kumjian, Alexander et al., 2000b:46122**
Nilsen, May Full crossed products by coactions, $C_0(X)$-algebras and C^*-bundles. (English summary) **2000i:46065**
Packer, Judith A. The equivariant Brauer group and twisted transformation group C^*-algebras. (English summary) **2000f:46086**
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Ponomarenko, I. N. *see* **Vershik, Anatoliĭ Moiseevich et al., 2000d:46068**
Rădulescu, Florin Finite generation properties for Fuchsian group von Neumann algebras tensor $B(H)$. (English summary) **2000k:46086**
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Xu, Qing Xiang On the covariant isomorphism of crossed-product C^*-algebras of the form $\mathscr{T}(l^2(\mathbf{Z}_+^2)) \times_{\alpha_\sigma} \mathbf{Z}$. (English and Chinese summaries) **2000c:46128**

22D30 Induced representations

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Benayed, Miloud Quantification géométrique et méthode des orbites. (English summary) [Geometric quantization and the orbit method] **2000a:22004**
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Garrett, Paul Euler factorization of global integrals. (English summary) **2000m:11043**
Moriyama, Tomonori Spherical functions with respect to the semisimple symmetric pair $(\mathrm{Sp}(2,\mathbf{R}), \mathrm{SL}(2,\mathbf{R}) \times \mathrm{SL}(2,\mathbf{R}))$. (English summary) **2000j:22017**

22D35 Duality theorems

Items with secondary classifications in 22D35

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Saitô, Kazuyuki (*with* Wright, J. D. Maitland) Dynamic systems and duality for monotone complete C^*-algebras. **2000a:46114**
Wright, J. D. Maitland *see* **Saitô, Kazuyuki, 2000a:46114**

22D40 Ergodic theory on groups [see also 28Dxx]

Danilenko, A. I. On noncoalescent ergodic skew products and semigroups of their commutators. (Ukrainian summary) **2000d:22007**
Nevo, Amos (*with* Zimmer, Robert J.) Homogenous projective factors for actions of semi-simple Lie groups. (English summary) **2000h:22006**
Shalom, Yehuda Random ergodic theorems, invariant means and unitary representation. **2000i:22006**
Zimmer, Robert J. *see* **Nevo, Amos, 2000h:22006**

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Albuquerque, Paul Support des mesures de Patterson-Sullivan en rang supérieur. [Support of higher-rank Patterson-Sullivan measures] (*see* **2000f:00014**)
Dani, S. G. (*with* Raja, C. Robinson Edward) Asymptotics of measures under group automorphisms and an application to factor sets. (English summary) **2000i:22026**
Danilenko, A. I. Quasinormal subrelations of ergodic equivalence relations. (English summary) **2000k:37003**
Elliott, George A. (*with* Giordano, Thierry) Every approximately transitive amenable action of a locally compact group is a Poisson boundary. (English and French summaries) **2000i:46063**
Everest, Graham (*with* Ward, Thomas B.) A dynamical interpretation of the global canonical height on an elliptic curve. (English summary) **2000f:11079**
Furman, Alex (*with* Shalom, Yehuda) Sharp ergodic theorems for group actions and strong ergodicity. (English summary) **2000i:37001**
Giordano, Thierry *see* **Elliott, George A., 2000i:46063**
Gordon, E. I. On a Loeb space constructed from a family of Følner sets of an amenable group. (Russian. English and Russian summaries) **2000h:28016**
Johnson, Aimee S. A. (*with* Şahin, Ayşe A.) Isometric extensions of zero entropy $\mathbf{Z}^d$ loosely Bernoulli transformations. (English summary) **2000j:28021**
Ledrappier, François Distribution des orbites des réseaux sur le plan réel. (English and French summaries) [Distribution of lattice orbits on the real plane] **2000c:22009**
Lemańczyk, Mariusz (*with* Sinel'shchikov, S. D.) Unbounded gaps for cocycles and invariant measures for their Mackey actions. (English, Russian and Ukrainian summaries) **2000m:28020**
Lind, Douglas (*with* Schmidt, Klaus[1]) Homoclinic points of algebraic $\mathbf{Z}^d$-actions. (English summary) **2000d:37002**
Raja, C. Robinson Edward A note on the equation $\lambda * \rho * \mu = \rho$. **2000e:43001**
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Ward, Thomas B. Dynamical zeta functions for typical extensions of full shifts. (English summary) **2000m:11067**
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Willis, George An extension of a non-commutative Choquet-Deny theorem. (English summary) **2000c:43006**
Witte, David Riley (*with* Yukie, Akihiko; Zierau, Roger) Prehomogeneous vector spaces and ergodic theory. II. **2000i:22012**
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Zierau, Roger *see* **Witte, David Riley et al., 2000i:22012**

22D45 Automorphism groups of locally compact groups

Nebbia, Claudio Groups of isometries of a tree and the CCR property. **2000b:22007**
Stroppel, Markus Homogeneous symplectic maps and almost homogeneous Heisenberg groups. (English summary) **2000j:22006**

22D99 None of the above, but in this section

Furstenberg, Harry Stiffness of group actions. (English summary) **2000f:22008**

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Mah, Peter F. (*with* Miao, Tianxuan) Extreme points of the unit ball of the Fourier-Stieltjes algebra. (English summary) **2000i:43003**
Miao, Tianxuan *see* **Mah, Peter F., 2000i:43003**
Nebbia, Claudio Groups of isometries of a tree and the CCR property. **2000b:22007**
Raeburn, Iain (*with* Williams, Dana P.) ★ Morita equivalence and continuous-trace C^*-algebras. (English summary) **2000c:46108**
Shah, Riddhi The central limit problem on locally compact groups. (English summary) **2000m:60007**
Williams, Dana P. *see* **Raeburn, Iain, 2000c:46108**

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

Dragoş, Petru Non-standard geometry. (French summary) **2000j:22007**
Lo, Wai Lok (*with* Nillsen, Rodney) The expression of functions as sums of finite differences on compact abelian groups. (English summary) **2000c:22006**
Nillsen, Rodney *see* **Lo, Wai Lok, 2000c:22006**

Items with secondary classifications in 22E05

Vârsan, Constantin ★ Applications of Lie algebras to hyperbolic and stochastic differential equations. (English summary) **2000k:35016**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Božičević, Mladen On the associated cycles of discrete series representations. (English summary) **2000a:22005**
Cohen, Arjeh M. (*with* de Man, Ronald) On a tensor category for the exceptional Lie groups. **2000i:22007**
Kikuchi, Katsuhiko Remarks on Gelfand pairs associated to non-type-I solvable Lie groups. (English summary) **2000f:22009**
de Man, Ronald *see* **Cohen, Arjeh M., 2000i:22007**

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Driver, Bruce K. (*with* Gross, Leonard) Hilbert spaces of holomorphic functions on complex Lie groups. (English summary) **2000h:46029**
Goresky, Mark (*with* Tai, Yung-Sheng) Toroidal and reductive Borel-Serre compactifications of locally symmetric spaces. (English summary) **2000h:32030**
Gross, Leonard *see* **Driver, Bruce K., 2000h:46029**
Tai, Yung-Sheng *see* **Goresky, Mark, 2000h:32030**

22E15 General properties and structure of real Lie groups

Bao, Zhi Qiang Intersection theory in homogeneous spaces of simple Lie groups. (Chinese. English and Chinese summaries) **2000m:22009**
Baoua, Oumarou Boukary Gelfand pairs with coherent states. (English summary) **2000a:22006**
Borisov, Adriyan V. Subgroups of the group of the general similitudes in the Galilean plane. (English summary) **2000j:22008**
Boyarskiĭ, A. M. Singular orbits of coadjoint action of Lie groups. (English and Russian summaries) **2000d:22008**
Đoković, Dragomir Ž. (*with* Hofmann, Karl H.) Problems on the exponential function of Lie groups. **2000f:22010**
Field, Michael Generating sets for compact semisimple Lie groups. (English summary) **2000b:22008**
Gündogan, H. The cylinder Lie group in E^5 and its action as Lie transformation group. (English summary) **2000a:22007**
Helminck, A. G. (*with* Hilgert, Joachim; Neumann, Andreas[2]; Ólafsson, G.) A conjugacy theorem for symmetric spaces. **2000b:22009**
Hilgert, Joachim *see* **Helminck, A. G. et al., 2000b:22009**
Hofmann, Karl H. *see* **Đoković, Dragomir Ž., 2000f:22010**
Long, Yi Ming Topological structures of ω-subsets in symplectic groups. (Chinese. English and Chinese summaries) **2000j:22009**
Magyar, Z. Which real Lie groups are reductive? (English summary) **2000a:22008**
Miyasaka, Takashi (*with* Shukuzawa, Osamu; Yokota, Ichiro) Spinor-generators of compact exceptional Lie groups F_4, E_6 and E_7. **2000f:22011**
Neumann, Andreas[2] *see* **Helminck, A. G. et al., 2000b:22009**
Ólafsson, G. *see* **Helminck, A. G. et al., 2000b:22009**
Shukuzawa, Osamu *see* **Miyasaka, Takashi et al., 2000f:22011**
Viswanath, M. K. The geometry and structure of the group Sp(2, **R**). (English summary) **2000a:22009**
Witte, David Riley Cocycle superrigidity for ergodic actions of non-semisimple Lie groups. (English summary) **2000i:22008**
Yokota, Ichiro *see* **Miyasaka, Takashi et al., 2000f:22011**

Items with secondary classifications in 22E15

Albuquerque, R. P. On Lie groups with left invariant semi-Riemannian metric. (*see* **2000a:53001**)
Arriola, Leon M. Global first integrals for first order difference equations. (English summary) **2000c:39004**
Borel, Armand ★ Semisimple groups and Riemannian symmetric spaces. (English summary) **2000e:53063**
Brylinski, Ranee Geometric quantization of real minimal nilpotent orbits. (English summary) **2000g:53101**
Carmona, Jacques (*with* Delorme, Patrick) Transformation de Fourier sur l'espace de Schwartz d'un espace symétrique réductif. [Fourier transform on the Schwartz space of a reductive symmetric space] **2000j:22012**
Chon, Inheung (*with* Min, Hyesung) Triangular stochastic matrices generated by infinitesimal elements. (English summary) **2000i:15038**
Crouch, P. E. (*with* Kun, Gábor; Silva Leite, F.) The De Casteljau algorithm on Lie groups and spheres. (English summary) **2000g:53039**
Delorme, Patrick *see* **Carmona, Jacques, 2000j:22012**
Ferreira, Cecília (*with* Machado, Armando) Higher order symmetric spaces and the roots of the identity in a Lie group. (English summary) **2000m:53072**
Kun, Gábor *see* **Crouch, P. E. et al., 2000g:53039**
Lam, Chi-Sing Decomposition of time-ordered products and path-ordered exponentials. (English summary) **2000c:81143**
Machado, Armando *see* **Ferreira, Cecília, 2000m:53072**
Min, Hyesung *see* **Chon, Inheung, 2000i:15038**
Moan, P. C. (*with* Oteo, J. A.; Ros, José) On the existence of the exponential solution of linear differential systems. (English summary) **2000g:34006**
Oteo, J. A. *see* **Moan, P. C. et al., 2000g:34006**
Peterzil, Ya'acov (*with* Starchenko, Sergei) Definable homomorphisms of abelian groups in o-minimal structures. (English summary) **2000m:03090**
Ros, José *see* **Moan, P. C. et al., 2000g:34006**
Silva Leite, F. *see* **Crouch, P. E. et al., 2000g:53039**
Starchenko, Sergei *see* **Peterzil, Ya'acov, 2000m:03090**

22E20 General properties and structure of other Lie groups

Lee, Dong Hoon[1] Algebraic subgroups of Lie groups. (English summary) **2000h:22007**

Items with secondary classifications in 22E20

Hille, Lutz (*with* Röhrle, Gerhard) On parabolic subgroups of classical groups with a finite number of orbits on the unipotent radial. (English and French summaries) **2000i:20074**
Lohoué, Noël (*with* Mustapha, Sami) Sur les transformées de Riesz sur les groupes de Lie moyennables et sur certains espaces homogènes. (French summary) [Riesz transforms on amenable Lie groups and on certain homogeneous spaces] **2000a:43008**
Mustapha, Sami *see* **Lohoué, Noël, 2000a:43008**
Omladič, Matjaž (*with* Radjavi, Heydar; Šemrl, Peter) Homomorphisms from $\mathbf{C}^*$ into $GL_n(\mathbf{C})$. (English summary) **2000m:39059**
Radjavi, Heydar *see* **Omladič, Matjaž et al., 2000m:39059**
Röhrle, Gerhard *see* **Hille, Lutz, 2000i:20074**
Segal, Daniel Some remarks on p-adic analytic groups. **2000a:20065**
Šemrl, Peter *see* **Omladič, Matjaž et al., 2000m:39059**

22E25 Nilpotent and solvable Lie groups

Archbold, Robert J. (*with* Somerset, Douglas W. B.; Kaniuth, Eberhard; Schlichting, G.) On the topology of the dual of a nilpotent Lie group. **2000b:22010**
Cook, Darwyn C. Müntz-Szasz theorems for nilpotent Lie groups. (English summary) **2000a:22010**
Garimella, Gayatri Weak Paley-Wiener property for completely solvable Lie groups. (English summary) **2000a:22011**
Kaniuth, Eberhard *see* **Archbold, Robert J. et al., 2000b:22010**
Kisil', V. V. A theorem of Paley-Wiener type for nilpotent Lie groups. (Russian. English and Ukrainian summaries) **2000m:22010**
Kunita, Hiroshi Analyticity and injectivity of convolution semigroups on Lie groups. (English summary) **2000j:22010**
Lauret, Jorge Homogeneous nilmanifolds attached to representations of compact Lie groups. (English summary) **2000g:22008**
Le Page, Emile (*with* Peigné, Marc) Local limit theorems on some non-unimodular groups. (English and French summaries) **2000k:22010**
Magneron, Bernard Involutions complexes et vecteurs sphériques associés pour les groupes de Lie nilpotents réels. (English and French summaries) [Complex involutions and associated spherical vectors for real nilpotent Lie groups] **2000g:22009**
Mast, Maura B. Low-dimensional 2-step nilpotent Lie groups in resonance. (English summary) **2000f:22012**
Moskowitz, Martin (*with* Wüstner, Michael) Exponentiality of certain real solvable Lie groups. (English summary) **2000a:22012**
Peigné, Marc *see* **Le Page, Emile, 2000k:22010**
Ratnakumar, P. K. *see* **Sajith, G., 2000j:22011**
Sajith, G. (*with* Ratnakumar, P. K.) Gelfand pairs, K-spherical means and injectivity on the Heisenberg group. (English summary) **2000j:22011**
Schlichting, G. *see* **Archbold, Robert J. et al., 2000b:22010**
Somerset, Douglas W. B. *see* **Archbold, Robert J. et al., 2000b:22010**
Vasilevskiĭ, N. L. Group convolution operators on step of two nilpotent Lie groups [two-step nilpotent Lie groups]. (English summary) **2000g:22010**
Wüstner, Michael *see* **Moskowitz, Martin, 2000a:22012**

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An, Myoung (*with* Brodzik, A.; Gertner, I.; Tolimieri, R.) Weyl-Heisenberg systems and the finite Zak transform. (English summary) **2000e:94010**

Astengo, Francesca (*with* Di Blasio, Bianca) A Paley-Wiener theorem on NA harmonic spaces. (English summary) **2000h:43003**

Birindelli, I. (*with* Prajapat, J.) Nonlinear Liouville theorems in the Heisenberg group via the moving plane method. **2000k:35055**

Biroli, Marco (*with* Picard, Colette; Tchou, Nicoletta Anna) Homogenization of the p-Laplacian associated with the Heisenberg group. (English and Italian summaries) **2000e:35013**

Borisov, Adriyan V. Subgroups of the group of the general similitudes in the Galilean plane. (English summary) **2000j:22008**

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Christ, Michael (*with* Nagel, Alexander; Stein, Elias M.; Wainger, Stephen) Singular and maximal Radon transforms: analysis and geometry. **2000j:42023**

Di Blasio, Bianca *see* **Astengo, Francesca, 2000h:43003**

Franchi, Bruno (*with* Serapioni, Raul; Serra Cassano, Francesco) Sur les ensembles de périmètre fini dans le groupe de Heisenberg. (English and French summaries) [Sets of finite perimeter in the Heisenberg group] **2000e:49008**

Fujiwara, Hidenori Correction to: "Harmonic analysis for certain induced representations of a nilpotent Lie group" [J. Math. Soc. Japan **50** (1998), no. 3, 753–766; MR 99f:22011]. (French) **2000k:22012**

Gertner, I. *see* **An, Myoung et al., 2000e:94010**

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Kahng, Byung-Jay Deformation quantization of certain nonlinear Poisson structures. (English summary) **2000b:46127**

Kirillov, Aleksandr Aleksandrovich (*with* Melnikov, Anna) On a remarkable sequence of polynomials. (English and French summaries) **2000a:05005**

Lee, Kyung Bai (*with* Shin, Joonkook) Affine manifolds with dilations. (English summary) **2000d:57054**

Lee, Soo Teck (*with* Packer, Judith A.) K-theory for C^*-algebras associated to lattices in Heisenberg Lie groups. (English summary) **2000d:46085**

Li, Hong-Quan Estimations L^p des opérateurs de Schrödinger sur les groupes nilpotents. (French summary) [L^p estimates of Schrödinger operators on nilpotent groups] **2000e:58030**

Liu, Yong Ping (*with* Lu, Guozhen; Wheeden, Richard L.) Representation formulas and Sobolev spaces of high order on stratified groups and generalizations to metric spaces. (English summary) **2000f:46044**

Lu, Guozhen *see* **Liu, Yong Ping et al., 2000f:46044**

Melnikov, Anna *see* **Kirillov, Aleksandr Aleksandrovich, 2000a:05005**

Nagel, Alexander *see* **Christ, Michael et al., 2000j:42023**

Neeb, Karl-Hermann *see* **Hilgert, Joachim, 2000j:22016**

Niu, Peng Cheng (*with* Zhang, Ji Hui[1]; Wen, Cheng Lin) Semilinear equations with critical exponents on the Heisenberg group. (English summary) **2000b:35087**

— The discrete spectrum of the Laplacian on the Heisenberg group. (Chinese. English and Chinese summaries) **2000h:22009**

Packer, Judith A. *see* **Lee, Soo Teck, 2000d:46085**

Picard, Colette *see* **Biroli, Marco et al., 2000e:35013**

Prajapat, J. *see* **Birindelli, I., 2000k:35055**

Saint-Germain, Michel Poisson algebras and transverse structures. (English summary) **2000m:53117**

Serapioni, Raul *see* **Franchi, Bruno et al., 2000e:49008**

Serra Cassano, Francesco *see* **Franchi, Bruno et al., 2000e:49008**

Shin, Joonkook *see* **Lee, Kyung Bai, 2000d:57054**

Skrzypczak, Leszek On Besov spaces and absolute convergence of the Fourier transform on Heisenberg groups. (English summary) **2000i:46027**

Stein, Elias M. *see* **Christ, Michael et al., 2000j:42023**

Stroppel, Markus Homogeneous symplectic maps and almost homogeneous Heisenberg groups. (English summary) **2000j:22006**

Sun, Li Min[1] *see* **Wang, Si Lei, 2000k:43003**

Tchou, Nicoletta Anna *see* **Biroli, Marco et al., 2000e:35013**

Tolimieri, R. *see* **An, Myoung et al., 2000e:94010**

Wainger, Stephen *see* **Christ, Michael et al., 2000j:42023**

Wang, Si Lei (*with* Sun, Li Min[1]) Uncertainty principles on nilpotent Lie groups. (Chinese. English and Chinese summaries) **2000k:43003**

Wen, Cheng Lin *see* **Niu, Peng Cheng et al., 2000b:35087**

Wheeden, Richard L. *see* **Liu, Yong Ping et al., 2000f:46044**

Zara, Cătălin On a theorem of D. Müller. (Romanian. English and Romanian summaries) **2000a:53124**

Zhang, Ji Hui[1] *see* **Niu, Peng Cheng et al., 2000b:35087**

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

Baklouti, A. (*with* Ludwig, Jean) Désintégration des représentations monomiales des groupes de Lie nilpotents. (English summary) [Disintegration of monomial representations of nilpotent Lie groups] **2000b:22011**

Bekka, Mohammed El Bachir (*with* Driutti, P.) Restrictions of irreducible unitary representations of nilpotent Lie groups to lattices. (English summary) **2000k:22011**

Driutti, P. *see* **Bekka, Mohammed El Bachir, 2000k:22011**

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Ludwig, Jean *see* **Baklouti, A., 2000b:22011**

Sun, Li Min[1] Fourier transformation of the surface measure on the sphere in the Heisenberg group. (Chinese. English and Chinese summaries) **2000d:22009**

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Benayed, Miloud Quantification géométrique et méthode des orbites. (English summary) [Geometric quantization and the orbit method] **2000a:22004**

Cnops, Jan (*with* Kisil′, V. V.) Monogenic functions and representations of nilpotent Lie groups in quantum mechanics. (English summary) **2000b:81044**

Cook, Darwyn C. Müntz-Szasz theorems for nilpotent Lie groups. (English summary) **2000a:22010**

Dianin, S. I. (*with* Shirokov, I. V.) K-orbits, harmonic analysis and integrable equations on a four-dimensional Lie group. (Russian. Russian summary) **2000g:22012**

Kisil′, V. V. *see* **Cnops, Jan, 2000b:81044**

Magneron, Bernard Involutions complexes et vecteurs sphériques associés pour les groupes de Lie nilpotents réels. (English and French summaries) [Complex involutions and associated spherical vectors for real nilpotent Lie groups] **2000g:22009**

Nakazato, Hiroshi Integrability of representations of Lie algebras. (English summary) **2000b:17010**

Narita, Hiroaki Fourier expansion of holomorphic Siegel modular forms with respect to the minimal parabolic subgroup. **2000g:11034**

Nomura, Takaaki Berezin transforms and group representations. (English summary) **2000c:22003**

Prado, Humberto E. Norm estimates for a class of semigroups of Schrödinger type. (English summary) **2000c:47081**

Robinson, Paul L. Polynomial Weyl representations. (English summary) **2000j:81121**

Shirokov, I. V. *see* **Dianin, S. I., 2000g:22012**

Yang, Jae-Hyun On theta functions. (English summary) **2000e:11054**

22E30 Analysis on real and complex Lie groups [see also 33C80, 43–XX]

Ankabout, Karim Propriétés de certaines fonctions tempérées sur un espace symétrique réductif. (English and French summaries) [Properties of certain tempered functions on a reductive symmetric space] **2000h:22008**

Carmona, Jacques (*with* Delorme, Patrick) Transformation de Fourier sur l'espace de Schwartz d'un espace symétrique réductif. [Fourier transform on the Schwartz space of a reductive symmetric space] **2000j:22012**

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22E35 Analysis on p-adic Lie groups

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22E40 Discrete subgroups of Lie groups [see also 20Hxx, 32Nxx]

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22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

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22E43 Structure and representation of the Lorentz group

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22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05.}

Arthur, James Harmonic analysis and group representations.
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22E46 Semisimple Lie groups and their representations

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26–XX Real functions [see also 54C30]

26–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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26–01 Instructional exposition (textbooks, tutorial papers, etc.)

Cipra, Barry ★ Misteaks...and how to find them before the teacher does...
Cloud, Michael J. (*with* Drachman, Byron C.) ★ Inequalities. (English summary) **2000f:26001**
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Exner, George R. ★ Inside calculus. (English summary) **2000i:26001**
Fedorov, V. E. *see* **Sviridyuk, G. A.**
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Kaczor, Wiesława (*with* Nowak, M. T.) ★ Problems in mathematical analysis. I. (English summary) **2000k:26001**
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Courant, Richard (*with* John, Fritz) ★ Introduction to calculus and analysis. Vol. I. (English summary) **2000m:00002**
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McDonald, John N. (*with* Weiss, Neil A.) ★ A course in real analysis. (English summary) **2000g:00005**
Meunier, Pierre ★ Cours de mathématiques. (French. French summary) [Mathematics course]
Neudecker, Heinz *see* **Magnus, Jan R., 2000d:15001**
Ruiz Zúñiga, Ángel (*with* Barrantes Campos, Hugo) ★ Elementos de cálculo diferencial. (Spanish) [Elements of differential calculus]
Wagschal, Claude ★ Dérivation, intégration. (French. French summary) [Differentiation, integration] **2000f:28001**
(Weiss, Carol A.) *see* **McDonald, John N., 2000g:00005**
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Zorich, V. A. ★ Математический анализ. Часть I. (Russian. Russian summary) [Mathematical analysis. Part I] **2000g:00006a**
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26–03 Historical (must also be assigned at least one classification number from Section 01)

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Craik, Alex D. D. Calculus and analysis in early 19th-century Britain: the work of William Wallace. (English and French summaries) **2000i:01022**
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Grabinsky, Guillermo The Weierstrass continuous nondifferentiable function. (Spanish) **2000e:26006**
Petrova, S. S. (*with* Demidov, S. S.) Development of mathematical analysis. (Russian) **2000c:01002**
Popoviciu, Elena Sur certaines allures remarquables. [On certain remarkable allures]
Ruiz Zúñiga, Ángel (*with* Barrantes Campos, Hugo) ★ Elementos de cálculo diferencial. (Spanish) [Elements of differential calculus]
Sagan, Hans Skating along the edge of reason. (English summary) **2000b:26010**
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Wallace, William A. *see* **Craik, Alex D. D., 2000i:01022**

26–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 26–06

(Bruckner, Andy) *see* **Report on the Symposium in Real Analysis, 2000b:00015**

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Bruckner, Andrew M. Report on the Summer Symposium in Real Analysis XXII. **2000b:00015**
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26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

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Kulpa, Władysław (*with* Plewik, Sz.; Turzański, M.) Applications of Bolzano-Weierstrass method. (English summary) **2000h:26001**
Lahiri, B. K. (*with* Ghosh, Diptabibhu) Some properties of Ω-density of sets. (English summary)
McCluskey, A. E. (*with* McMaster, T. B. M.) Transfinite induction and the real line. (English summary) **2000a:26001**
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De Miguel, Juan Ramón From totally ordered semigroups towards an alternative system of axioms for the real numbers. (English summary) **2000a:06002**
Farfán, Rosa María *see* **Cantoral Uriza, Ricardo**
Jarník, Jiří *see* **Kurzweil, Jaroslav, 2000k:26008**
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26A06 One-variable calculus

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Gong, Zi Kun[2] A further generalization of the Newton-Leibniz formula. (Chinese. English and Chinese summaries)
Guo, Yu[1] (*with* Qi, Xue Jun) The determination of auxiliary functions for problems on the existence of mean values with the aid of indefinite integrals. (Chinese. English and Chinese summaries)
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Liu, Tao Wen The estimating of the remainder in the expansion Taylor's formulas on delta operator. (Chinese. English and Chinese summaries)
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Su, Ren Suo (*with* Zhang, San Ao; Xu, Shuang Kui) A generalized formula for integration by parts and its application. (Chinese. English and Chinese summaries)
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Xiao, Li *see* **Zhang, Zhi Jun**
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Items with secondary classifications in 26A06

Pawlikowska, Iwona An extension of a theorem of Flett. (English summary) **2000g:26004**
Zhu, Ke Ke Some properties of integrals of matrices of functions. (Chinese. Chinese summary)

26A09 Elementary functions

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26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

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26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

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26A16 Lipschitz (Hölder) classes

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26A18 Iteration [see also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]

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Guskov, Igor *see* **Daubechies, Ingrid et al., 2000h:42004**
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26A21 Classification of real functions; Baire classification of sets and functions [see also 03E15, 28A05, 54C50]

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26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

An, Tian Qing *see* **Ye, Guo Ju**
Anastassiou, George A. Differentiated shift-invariant integral operators, univariate case. (English summary) **2000e:26005**
— (*with* Gal, Sorin G.) On some differentiated shift-invariant integral operators, univariate case revisited. (English summary) **2000h:26020**
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Diab, F. M. On the differential properties of continuous functions. (English and Ukrainian summaries) **2000h:26011**
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Pawlikowska, Iwona An extension of a theorem of Flett. (English summary) **2000g:26004**
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Rocca, Matteo *see* **Ginchev, Ivan et al., 2000g:26003** *and* **La Torre, Davide, 2000i:26007**
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Zhong, Ning[1] Derivatives of computable functions. (English summary) **2000a:03075**

26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

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26A46 Absolutely continuous functions

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26A48 Monotonic functions, generalizations

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26A51 Convexity, generalizations

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26A99 None of the above, but in this section

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26Bxx Functions of several variables

26B05 Continuity and differentiation questions

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26B10 Implicit function theorems, Jacobians, transformations with several variables

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26B12 Calculus of vector functions

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26B25 Convexity, generalizations

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26B30 Absolutely continuous functions, functions of bounded variation

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26B35 Special properties of functions of several variables, Hölder conditions, etc.

Ha Huy Bang (*with* Le, Hoang Mai) On the Kolmogorov-Stein inequality. (English summary) **2000i:26016**
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26B40 Representation and superposition of functions

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26B99 None of the above, but in this section

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26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

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26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

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26C15 Rational functions [see also 14Pxx]

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26C99 None of the above, but in this section

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26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15.}

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Dictionary:
Inequalities *see* **Bullen, P. S., 2000e:26001**

26D05 Inequalities for trigonometric functions and polynomials

Bencze, Mihály About polynomial inequalities.
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Items with secondary classifications in 26D05

Cui, Li-Hong *see* **Qi, Feng et al., 2000m:26027**
Erdélyi, Tamás Markov-type inequalities for constrained polynomials with complex coefficients. **2000e:41024**
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Prestin, Jürgen (*with* Quak, Ewald G.) Optimal functions for a periodic uncertainty principle and multiresolution analysis. (English summary) **2000j:42005**
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Vernescu, Andrei Sur l'établissement de deux inégalités partant d'une indication de Monsieur le Professeur D. D. Stancu. (English summary) [Proof of two inequalities as suggested by D. D. Stancu] (*see* **2000e:65013**)
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26D07 Inequalities involving other types of functions

Agarwal, Ravi P. *see* **Dragomir, Sever Silvestru et al., 2000m:26012**
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Feder, Meir *see* **Zamir, Ram, 2000a:26014**
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Laforgia, Andrea *see* **Elbert, Árpád, 2000m:26013**
Pichugov, S. A. *see* **Babenko, V. F. et al., (2000m:00029)**
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Giordano, Carla *see* **Pečarić, Josip E. et al., 2000e:26015**
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26D10 Inequalities involving derivatives and differential and integral operators

Adeagbo-Sheikh, A. G. (*with* Imoru, Christopher O.) On an integral inequality involving functions and their derivatives. (English summary) **2000i:26018**
Babenko, V. F. (*with* Kofanov, V. A.; Pichugov, S. A.) On exact Kolmogorov-type inequalities in the case of small smoothnesses. (Russian. English summary) **2000d:26016**
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26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions [see also 32B05, 32C05]

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26E10 C^∞-functions, quasi-analytic functions [see also 58C25]

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26E15 Calculus of functions on infinite-dimensional spaces [see also 46G05, 58Cxx]

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26E20 Calculus of functions taking values in infinite-dimensional spaces [see also 46E40, 46G10, 58Cxx]

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26E25 Set-valued functions [see also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx.}

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26E30 Non-Archimedean analysis [see also 12J25]

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26E40 Constructive real analysis [see also 03F60]

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Cheng, Di Hui (*with* Wu, Cong) RS integrals of interval-valued functions and fuzzy-valued functions. (Chinese. English and Chinese summaries)
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28Axx Classical measure theory

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 26A21, 54H05]

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28A10 Real- or complex-valued set functions

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Chentsov, A. G. Generalized solutions of extremal problems and finitely additive measures. (Russian. Russian summary) (*see* **2000g:00034**)
Grande, Zbigniew On the measurability of functions defined on the product of two topological spaces. (English summary) **2000f:28007**
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Mabry, Richard D. Some remark concerning the uniformly gray sets of G. Jacopini. (English and Italian summaries) **2000c:28001**
Ongay-Larios, Fausto The algebra of patches and the Jordan measure. (Spanish) **2000c:28006**
Tu, Li Rong *see* **Liu, Zhi Xiu**

28A12 Contents, measures, outer measures, capacities

Abian, Alexander (*with* Runyan, Grant) Cantor subsets and outer measures of sets. (English summary) **2000d:28004**
Bhaskara Rao, K. P. S. (*with* Shortt, R. M.) On systems of null sets. (English summary) **2000k:28004**
Dai, Chao Shou (*with* Jing, Ping) The symmetric difference of the sets and its measure. (English and Chinese summaries)
Dolgusheva, N. V. A remark on completely finitely additive measures. (Russian. Russian summary) (*see* **2000a:00011**)
Groes, Ebbe (*with* Jacobsen, Jørgen; Sloth, Birgitte; Tranæs, Torben) Axiomatic characterizations of the Choquet integral. (English summary) **2000d:28005**
Jacobsen, Jørgen *see* **Groes, Ebbe et al., 2000d:28005**
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König, Heinz J. E. Image measures and the so-called image measure catastrophe. (English summary) **2000j:28002**
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Lipecki, Z. Quasi-measures with finitely or countably many extreme extensions. (English summary) **2000d:28006**
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Pfeffer, W. F. Derivatives and variations of charges. **2000c:28002**
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Sloth, Birgitte *see* **Groes, Ebbe et al., 2000d:28005**
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— Smoothness conditions on measures using Wallman spaces. (English summary) **2000i:28004**
Tranæs, Torben *see* **Groes, Ebbe et al., 2000d:28005**

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Balcerzak, Marek (*with* Kharazishvili, A. B.) On uncountable unions and intersections of measurable sets. (English summary) **2000j:28001**
Chentsov, A. G. Finitely additive measures and problems of asymptotic analysis. (English summary) (*see* **2000i:93002**)
— Universal version of generalized integral constraints in the class of finitely additive measures. I. (Russian. Russian summary) **2000m:49059**
Kharazishvili, A. B. *see* **Balcerzak, Marek, 2000j:28001**
Klimov, V. S. (*with* Panasenko, E. S.) Geometric properties of ideal spaces, and the capacities of sets. (Russian. Russian summary) **2000f:46037**
König, Heinz J. E. What are signed contents and measures? (English summary) **2000k:28003**
Panasenko, E. S. *see* **Klimov, V. S., 2000f:46037**
Ponnley, James Lattice related outer measure inequalities and their applications. (English summary) **2000j:28016**
Sazhenkov, A. N. Regularity of a weakly regular measure. (Russian) (*see* **2000b:53001**)
Solecki, Sławomir Analytic ideals and their applications. (English summary) **2000g:03112**
Thomson, Brian S. Some properties of variational measures. (English summary) **2000g:26006**
Vlad, Carmen σ-smoothness criteria for lattice measures. (English and French summaries) **2000i:28015**
— Remarks on $\mu^{\prime\prime}$-measurable sets: regularity, σ-smoothness, and measurability. (English summary) **2000e:28002**
— Applications of outer measures to σ-smoothness and τ-smoothness of measures. (English summary) **2000h:28013**
Wibisono, Trisnawati On extensions of smooth measures and some measurability conditions. (English summary) **2000e:28003**
Yoneda, K. A generalized measure concentrated on a closed set of measure zero. (English summary) **2000b:28003**

28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

Maurey, Bernard (*with* Tacchi, Jean-Pierre) Théorème de densité et inégalité maximale: à la redécouverte de Lebesgue. [Density theorem and maximal inequality: rediscovering Lebesgue] **2000c:28003**
Tacchi, Jean-Pierre *see* **Maurey, Bernard, 2000c:28003**
Vlad, Carmen Remarks on $\mu^{\prime\prime}$-measurable sets: regularity, σ-smoothness, and measurability. (English summary) **2000e:28002**

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Antoniou, Ioannis E. (*with* Suchanecki, Zdzislaw) Densities of singular measures and generalized spectral decompositions. **2000b:47062**
Chentsov, A. G. *see* **Pytkeev, E. G.**
Csörnyei, Marianna On the affine sharpness of Heart's density theorem. (English summary) **2000c:28005**
Escribano, Ma. del Carmen (*with* Reyes, Miguel) Analysis of functions defined on fractal sets. (English summary) **2000g:28020**
Lu, Shi Pan Hausdorff calculus and some of its applications. (English summary) **2000h:28005**
Martínez-Legaz, Juan Enrique (*with* Phạm Hữ'u Sách) A new subdifferential in quasiconvex analysis. (English summary) **2000i:49023**
Oniani, G. G. On the possible values of upper and lower derivatives. (Russian. Russian summary) **2000h:26012**
Phạm Hữ'u Sách *see* **Martínez-Legaz, Juan Enrique, 2000i:49023**
Pytkeev, E. G. (*with* Chentsov, A. G.) On some density properties of countably additive measures. (Russian. Russian summary)
Reyes, Miguel *see* **Escribano, Ma. del Carmen, 2000g:28020**
Solodov, A. P. Conditions for the differentiability almost everywhere of absolutely continuous Banach-valued functions. (Russian) **2000h:46061**
Stokolos, A. M. On a problem of A. Zygmund. (Russian. Russian summary) **2000f:26016**
Suchanecki, Zdzislaw *see* **Antoniou, Ioannis E., 2000b:47062**
Xi, Lifeng Calculus on Cantor triadic set. I. Derivative. (English summary) **2000b:26011**

28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

Camilli, F. A note on convergence of level sets. (English summary) **2000b:28002**
Caristi, Giuseppe (*with* Ferrara, Massimiliano) On convergence in quadratic mean. (Italian. Italian summary)
Cnops, Jan A scaling equation with only non-measurable orthogonal solutions. (English summary) **2000m:28001**
Ferrara, Massimiliano *see* **Caristi, Giuseppe**
Kallman, Robert R. Subsequences and category. (English summary)
Klei, Heinz-Albrecht Fatou's identity and Lebesgue's convergence theorem. (English summary) **2000c:28004**
Morayne, Michał (*with* Ryll-Nardzewski, Czesław) Functions equivalent to Lebesgue measurable ones. (English summary) **2000k:28005**
Niizeki, Syôzô Remarks on the Lusin's theorem for the Lebesgue measurable function on $\mathbf{R}^N$. **2000a:28004**
Ryll-Nardzewski, Czesław *see* **Morayne, Michał, 2000k:28005**
Rzymowski, Witold (*with* Zygmunt, Wojciech) On the Fréchet dominated approximation theorem. (English summary) **2000k:28006**
Valadier, Michel Analysis of the asymptotic distance between oscillating functions and their weak limit in L^2. (English summary) **2000k:28007**
Yoneda, K. A generalized measure concentrated on a closed set of measure zero. (English summary) **2000b:28003**
Zygmunt, Wojciech *see* **Rzymowski, Witold, 2000k:28006**

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Duvall, P. (*with* Keesling, James) The Hausdorff dimension of the boundary of the Lévy dragon. (English summary) **2000m:54040**
Gaĭdukevich, O. Ī. (*with* Maslyuchenko, V. K.) Uniform equicontinuity and the Namioka and Scorza-Dragoni properties. (Ukrainian. English and Russian summaries)
Keesling, James *see* **Duvall, P., 2000m:54040**
Kotlicka, Elżbieta *see* **Balcerzak, Marek et al., 2000h:39019**
Kružík, Martin DiPerna-Majda measures and uniform integrability. (English summary) **2000d:49019**

Kucia, Anna Extending Carathéodory functions. (English and Russian summaries)
Laczkovich, Miklós Operators commuting with translations, and systems of difference equations. (English summary) **2000b:47082**
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Mitra, Subhen *see* **Mukhopadhyay, S. N., 2000c:26003**
Mukhopadhyay, S. N. (*with* Mitra, Subhen) An extension of a theorem of Ash on generalized differentiability. (English summary) **2000c:26003**
Natkaniec, Tomasz (*with* Recław, Ireneusz) Universal summands for families of measurable functions. (English summary) **2000i:26004**
Pata, Vittorino (*with* Ursino, Pietro) Rearrangeable functions on the real line. (English summary) **2000h:26009**
Poroshkin, A. A. On a generalization of the completeness theorem. (Russian. English and Russian summaries) **2000j:46057**
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28A25 Integration with respect to measures and other set functions

Buldygin, V. V. (*with* Zayats, Vladimir) Some properties of integrals with circularly hooked arguments. (Ukrainian summary) **2000h:28002**
Gangopadhyay, Sreela (*with* Rao, Bhamidi V.) Completeness of L_1 spaces over finitely additive probabilities. **2000f:28006**
Ivashev-Musatov, O. S. Integration and measurability. (Russian. Russian summary) **2000b:28004**
Kats, Boris Aleksandrovich Integration over a plane fractal curve, a jump problem and generalized measures. (Russian) **2000g:28011**
Komuro, Naoto (*with* Yamazaki, Toshihiro) Duality formula of an integral functional of measure. (English summary)
König, Heinz J. E. Measure and integration: comparison of old and new procedures. (English summary) **2000g:28012**
Mikusiński, Jan On defining integrals by series. (English and Russian summaries)
Rao, Bhamidi V. *see* **Gangopadhyay, Sreela, 2000f:28006**
Yamazaki, Toshihiro *see* **Komuro, Naoto**
Zayats, Vladimir *see* **Buldygin, V. V., 2000h:28002**

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An, Tian Qing *see* **Ye, Guo Ju**
Boccuto, Antonio (*with* Sambucini, Anna Rita) Abstract integration in convergence groups. (English and Italian summaries) **2000f:28011**
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Horváth, László Integral inequalities in measure spaces. **2000d:26019**
Jacobsen, Jørgen *see* **Groes, Ebbe et al., 2000d:28005**
Kęska, Sergiusz A variant of the Hausdorff theorem for multiindex matrices. I. (English summary) **2000j:15042**
Kim, Bong Jin A note on the integration with respect to finitely additive set functions. (English summary) **2000g:28033**
Pfeffer, W. F. On additive continuous functions of figures. (English summary) **2000h:26025**
Sambucini, Anna Rita *see* **Boccuto, Antonio, 2000f:28011**
Sloth, Birgitte *see* **Groes, Ebbe et al., 2000d:28005**
Stokolos, A. M. On a problem of A. Zygmund. (Russian. Russian summary) **2000f:26016**
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Vlad, Serban E. Introductory topics in binary set functions. (English summary)
Ye, Guo Ju (*with* An, Tian Qing) Nonabsolute integration defined with Vitali covers. (Chinese. English and Chinese summaries)

28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

Banakh, Taras Topology of spaces of probability measures. I. The functors P_τ and $\hat{P}$. (Russian. English and Russian summaries) **2000m:28002**
— Topology of spaces of probability measures. II. Barycenters of Radon probability measures and the metrization of the functors P_τ and $\hat{P}$. (Russian. English and Russian summaries) **2000m:28003**
Busch, Paul Orthogonality and disjointness in spaces of measures. (English summary) **2000d:28008**
Degla, Guy A counterexample to "An extension of the Vitali-Hahn-Saks theorem" [Proc. Amer. Math. Soc. **124** (1996), no. 12, 3673–3676; MR 97f:28012] by O. Hernández-Lerma and J. B. Lasserre, and a compactness result. (English summary) **2000m:28004**
Fedorchuk, V. V. On the topological completeness of spaces of measures. (Russian. Russian summary) **2000k:28008**
(Hernández-Lerma, Onésimo) *see* **Degla, Guy, 2000m:28004**
(Lasserre, Jean Bernard) *see* **Degla, Guy, 2000m:28004**
Stinchcombe, Maxwell B. More on the multivariate Helly theorem. (English summary)

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Banakh, Taras (*with* Radul, T. N.) Geometry of mappings of spaces of probability measures. (Russian. English and Russian summaries) **2000d:54011**
Bendito, Enrique (*with* Encinas, Andrés M.) Positive discrete measures on locally compact spaces. (English summary) **2000h:28012**
Billingsley, Patrick ★ Convergence of probability measures. (English summary) **2000e:60008**
Braides, Andrea *see* **Amar, Micol, 2000c:49018**
Encinas, Andrés M. *see* **Bendito, Enrique, 2000h:28012**
Fedorchuk, V. V. Functors of probability measures in topological categories. **2000b:28013**
— On completeness-type properties of spaces of τ-additive probability measures. (Russian. Russian summary) **2000k:54012**
Feng, Jing (*with* Li, Bing[1]; Wu, Meng Da) Vague convergences of sequences of compact fuzzy measures. (Chinese. English and Chinese summaries)
Holický, Petr (*with* Kalenda, Ondřej) Descriptive properties of spaces of measures. (English summary) **2000a:54056**
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Li, Bing[1] *see* **Feng, Jing et al.**
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Peng, Jia Nan (*with* Wang, Wan Xiong) Weak convergence of random probability measures. (Chinese. English and Chinese summaries)
Radul, T. N. *see* **Banakh, Taras, 2000d:54011**
Sadovnichiĭ, Yu. V. On some categorical properties of the functor U_τ. (Russian. Russian summary) **2000j:54034**
Suquet, Charles Une topologie prehilbertienne sur l'espace des mesures à signes bornées. (English and French summaries) [A pre-Hilbert topology on the space of bounded signed measures]
Trudinger, Neil S. (*with* Wang, Xu-Jia) Hessian measures. I. **2000a:35061**
Wang, Wan Xiong *see* **Peng, Jia Nan**
Wang, Xu-Jia *see* **Trudinger, Neil S., 2000a:35061**
Wu, Meng Da *see* **Feng, Jing et al.**

28A35 Measures and integrals in product spaces

Farah, Ilijas Approximate homomorphisms. (English summary) **2000k:28009**
Grande, Zbigniew On the measurability of functions defined on the product of two topological spaces. (English summary) **2000f:28007**
Kłopotowski, A. (*with* Nadkarni, M. G.) On the existence of automorphisms with simple Lebesgue spectrum. (English summary) **2000g:28013**
Nadkarni, M. G. *see* **Kłopotowski, A., 2000g:28013**

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Alesker, S. On the measure of intersection of cylinders. (English summary) **2000m:52011**
Bardaro, Carlo (*with* Musielak, J.; Vinti, Gianluca) Some modular inequalities related to the Fubini-Tonelli theorem. (English and Georgian summaries) **2000d:26028**
De Amo, E. (*with* Díaz Carrillo, M.) Fubini-integral metrics. (English summary) **2000d:28015**
Díaz Carrillo, M. *see* **De Amo, E., 2000d:28015**
Gangopadhyay, Sreela (*with* Rao, Bhamidi V.) On the Hewitt-Savage zero one law in the strategic setup. (English summary) **2000k:60052**
Kwon, Ern Gun (*with* Lee, S. T.; Shon, Kwang Ho) An additional term between arithmetic mean and geometric mean. (English summary)
Lee, S. T. *see* **Kwon, Ern Gun et al.**
Levin, Vladimir L. On duality theory for nontopological versions of the mass transfer problem. (Russian. Russian summary) **2000c:49054**
Musielak, J. *see* **Bardaro, Carlo et al., 2000d:26028**
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Shon, Kwang Ho *see* **Kwon, Ern Gun et al.**
Vinti, Gianluca *see* **Bardaro, Carlo et al., 2000d:26028**

28A50 Integration and disintegration of measures

Berti, Patrizia (*with* Rigo, Pietro) Existence of non-measurable disintegrations. (English summary) **2000b:28005**
Helson, Henry Disintegration of measures. **2000h:28003**
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Items with secondary classifications in 28A50

Naito, Koichiro Fractal dimensions and ε-syncronicity of multidimensional quasi periodic systems. (English summary) **2000m:37183**

28A51 Lifting theory [see also 46G15]

Items with secondary classifications in 28A51

Bhaskara Rao, K. P. S. Some important theorems in measure theory. (English summary) **2000f:28002**
Eder, S. Some aspects of the lifting property of the space $\mathscr{L}_\infty(\mu, X)$. (English summary) **2000h:46064**
Shelah, Saharon The lifting problem with the full ideal. (English summary) **2000g:03109**

28A60 Measures on Boolean rings, measure algebras [see also 54H10]

Mehemmed, Ali A. A theorem describing the structure of set mappings between measure algebras. (English summary) **2000g:28014**
Mushtari, D. Kh. The Gleason theorem for the field of rational numbers and residue fields. (Russian. Russian summary) **2000h:28004**
Su, Jin Yong *see* **Yan, Guo Jun, 2000a:28005**
Vlad, Serban E. Introductory topics in binary set functions. (English summary)
Yan, Guo Jun (*with* Su, Jin Yong) Extensions of measures on Π classes. (Chinese. English and Chinese summaries) **2000a:28005**

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D'Aniello, Emma Nonatomic states. (English summary) **2000i:06020**

Farah, Ilijas Approximate homomorphisms. (English summary) **2000k:28009**
Jin, Renling Distinguishing three strong saturation properties in nonstandard analysis. (English summary) **2000g:03142**
Lovyagin, Yu. N. (*with* Matveeva, O. P.) Classification of Boolean algebras with a sufficient number of (σ)-continuous quasi-measures. (Russian. English and Russian summaries) **2000h:06016**
Matveeva, O. P. *see* **Lovyagin, Yu. N., 2000h:06016**
Schaefer, Helmut H. *see* **Zhang, Xiao Dong[3] et al., 2000b:06040**
Winkowska-Nowak, Kasia *see* **Zhang, Xiao Dong[3] et al., 2000b:06040**
Zhang, Xiao Dong[3] (*with* Schaefer, Helmut H.; Winkowska-Nowak, Kasia) Order continuity of locally compact Boolean algebras. (English summary) **2000b:06040**

28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49Q15]

Buczolich, Zoltán (*with* De Pauw, Thierry; Pfeffer, W. F.) Multipliers for generalized Riemann integrals. (French summary)
Csörnyei, Marianna On the affine sharpness of Heart's density theorem. (English summary) **2000c:28005**
De Pauw, Thierry *see* **Buczolich, Zoltán et al.**
Krantz, Steven G. (*with* Parks, Harold R.) ★ The geometry of domains in space. (English summary) **2000m:28005**
Ongay-Larios, Fausto The algebra of patches and the Jordan measure. (Spanish) **2000c:28006**
Parks, Harold R. *see* **Krantz, Steven G., 2000m:28005**
Pfeffer, W. F. *see* **Buczolich, Zoltán et al.**
Saksman, Eero Remarks on the nonexistence of doubling measures. (English summary) **2000b:28006**
Spear, Donald W. Sets with different dimensions in [0, 1]. (English summary) **2000g:28015**

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David, Guy (*with* Semmes, Stephen) Uniform rectifiability and quasiminimizing sets of arbitrary codimension. (English summary) **2000i:49062**
Fragalà, Ilaria (*with* Mantegazza, Carlo) On some notions of tangent space to a measure. (English summary) **2000d:49063**
Hug, Daniel Absolute continuity for curvature measures of convex sets. II. **2000m:52009**
Jackson, Stephen C. (*with* Mauldin, R. Daniel) On the σ-class generated by open balls. (English summary) **2000h:28001**
Jørgensen, Palle E. T. (*with* Pedersen, Steen) Dense analytic subspaces in fractal L^2-spaces. (English summary) **2000a:46045**
— *see also* **Strichartz, Robert S., 2000a:46046**
Kaliman, Shulim Eisenman intrinsic measures and algebraic invariants. (English summary) **2000h:32036**
Malý, Jan Absolutely continuous functions of several variables. (English summary) **2000a:49078**
Mantegazza, Carlo *see* **Fragalà, Ilaria, 2000d:49063**
Mattila, Pertti (*with* Sjölin, Per) Regularity of distance measures and sets. (English summary) **2000h:42008**
Mauldin, R. Daniel *see* **Jackson, Stephen C., 2000h:28001**
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Rey, José-Manuel The role of Billingsley dimensions in computing fractal dimensions on Cantor-like spaces. (English summary) **2000c:28017**
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Strichartz, Robert S. Remarks on: "Dense analytic subspaces in fractal L^2-spaces" [J. Anal. Math. **75** (1998), 185–228; MR 2000a:46045] by P. E. T. Jorgensen and S. Pedersen. (English summary) **2000a:46046**
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Volkert, Klaus Die Lehre vom Flächeninhalt ebener Polygone: einige Schritte in der Mathematisierung eines anschaulichen Konzeptes. (German summary) [The theory of the surface area of plane polygons: some steps in the mathematization of a graphic concept] **2000c:52005**
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28A78 Hausdorff and packing measures

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Baek, In Soo *see* **Lee, Hung Hwan, 2000a:28007**
Bisbas, Antonis A note on the distribution of digits in triadic expansions. (English summary) **2000c:28007**
Chen, Er Ming (*with* Du, Xiu Feng) The estimation of Hausdorff measure on Koch curve. (Chinese. English and Chinese summaries)
Dai, Mei Feng (*with* Su, Wei Yi) Refined box dimensions and graphs of continuous functions. (Chinese. English and Chinese summaries)
Dai, Xiongping (*with* Zhou, Zuo Ling; Geng, Xiang Yi) Some relations between Hausdorff-dimensions and entropies. (English summary) **2000a:28006**
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Falconer, K. J. Representation of families of sets by measures, dimension spectra and Diophantine approximation. (English summary) **2000j:28003**
— *see also* **Rogers, C. Ambrose, 2000b:28009**
Feng, De Jun (*with* Wen, Zhi Ying; Wu, Jun[2]) Some remarks on the box-counting dimensions. (English summary) **2000g:28016**
Geng, Xiang Yi The box-counting dimension of invariant sets for iterated function systems. (English summary)
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Huan, Lihu *see* **Yu, Jing Hu, 2000b:28010**
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Järvenpää, Maarit Hausdorff and packing dimensions, intersection measures, and similarities. (English summary) **2000g:28017**
Jia, Bao Guo *see* **Lu, Yong**
Jung, Soon-Mo On the Hausdorff measure of a class of self-similar sets. (English summary) **2000g:28018**
Katz, Nets Hawk (*with* Tao, Terence) Bounds on arithmetic projections, and applications to the Kakeya conjecture. (English summary) **2000m:28006**
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Lee, Hung Hwan (*with* Baek, In Soo) Hausdorff measure of the scattered Cantor sets. (English summary) **2000a:28007**
Li, Bing Zhang *see* **Yu, Jing Hu et al., 2000g:28019**
Lin, Li Ping The Hausdorff measures of a kind of generalized Cantor sets. (Chinese. English and Chinese summaries)
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28Bxx Set functions, measures and integrals with values in abstract spaces

28B05 Vector-valued set functions, measures and integrals [see also 46G10]

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28B10 Group- or semigroup-valued set functions, measures and integrals

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28B99 None of the above, but in this section

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28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

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28C10 Set functions and measures on topological groups, Haar measures, invariant measures [see also 22Axx, 43A05]

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Canavati, José A. (*with* Galaz-Fontes, Fernando) A note on Chebyshev's "other" inequality. (English summary) **2000c:28018**
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28C15 Set functions and measures on topological spaces (regularity of measures, etc.)

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Kolesnikov, A. V. On continuous images of the Lebesgue measure. (Russian. Russian summary) **2000k:28025**
LaBerge, Tim Supports of quasi-measures. (English summary) **2000g:28031**
— *see also* **Grubb, D. J., 2000j:28015**
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28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [see also 46G12, 58C35, 58D20, 60B11]

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Egorov, A. D. Some problems of analysis on linear spaces with non-Gaussian measures. (Russian. English summary) **2000k:28027**
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— *see also* **Chang, Kun Soo et al., 2000c:28020**
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28C99 None of the above, but in this section

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28D10 One-parameter continuous families of measure-preserving transformations

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Lindenstrauss, Elon Pointwise theorems for amenable groups. (English summary) **2000g:28042**
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Prikhod'ko, A. A. Joinings of the action of the group $\mathrm{GL}(n, \mathbf{Z})$ on an n-dimensional torus. (Russian)
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— Quasinormal subrelations of ergodic equivalence relations. (English summary) **2000k:37003**
Einsiedler, Manfred A generalisation of Mahler measure and its application in algebraic dynamical systems. (English summary) **2000c:11171**
Elliott, George A. (*with* Giordano, Thierry) Every approximately transitive amenable action of a locally compact group is a Poisson boundary. (English and French summaries) **2000i:46063**
Feldman, Jacob[1] Standard orbit factors and entropy-free Vershik equivalence. (English summary) **2000g:37006**
Furstenberg, Harry Stiffness of group actions. (English summary) **2000f:22008**
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Gordin, Mikhail Double extensions of dynamical systems and the construction of mixing filtrations. (Russian. English and Russian summaries) **2000e:37003**
Grigorchuk, R. I. Ergodic theorems for the actions of a free group and a free semigroup. (Russian) **2000h:37004**
Heicklen, Deborah Bernoullis are standard when entropy is not an obstruction. (English summary) **2000c:28024**
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28D20 Entropy and other invariants

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Cánovas Peña, J. S. *see* **Balibrea Gallego, Francisco et al., 2000j:37008**
Choe, Geon Ho (*with* Kim, Dong Han; Kim, Young-One; Lee, Jungseob) Endomorphisms of subshifts. (English summary) **2000j:37015**
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Deaconu, Valentin Entropy estimates for some C^*-endomorphisms. (English summary) **2000d:46081**
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Downarowicz, T. (*with* Lacroix, Y.) Almost 1-1 extensions of Furstenberg-Weiss type and applications to Toeplitz flows. (English summary) **2000a:28014**
Einsiedler, Manfred A generalisation of Mahler measure and its application in algebraic dynamical systems. (English summary) **2000c:11171**
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Collet, Pierre (*with* Martínez, Servet A.) Diffusion coefficient in transient chaos. (English summary) **2000h:37007**
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Forrest, A. H. (*with* Hunton, John R.) The cohomology and K-theory of commuting homeomorphisms of the Cantor set. (English summary) **2000e:19006**
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Pollicott, Mark Rates of mixing for potentials of summable variation. (English summary) **2000c:37005**
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Serra, Stefano Spectral and computational analysis of block Toeplitz matrices having non-negative definite matrix-valued generating functions. (English summary) **2000a:65057**
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28Exx Miscellaneous topics in measure theory

28E05 Nonstandard measure theory [see also 03H05, 26E35]

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Chuĭko, G. *see* **Kudrik, T. S. et al., 2000e:47120**
Goldblatt, Robert ★ Lectures on the hyperreals. (English summary) **2000a:03113**
Jin, Renling (*with* Shelah, Saharon) Compactness of Loeb spaces. (English summary) **2000b:03231**
— Distinguishing three strong saturation properties in nonstandard analysis. (English summary) **2000g:03142**
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— (*with* Lyantse, V. È.) Operator-valued charges on finite sets. (English and Russian summaries) **2000e:47121**
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28E10 Fuzzy measure theory [see also 03E72, 26E50, 94D05]

Aeyels, Dirk *see* **de Cooman, Gert, 2000g:28044**
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Ban, Adrian Applications of conormed-seminormed fuzzy integrals. (English summary)
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Barbieri, Giuseppina (*with* Weber, Hans[1]) A topological approach to the study of fuzzy measures. (English summary) **2000h:28017**
Calvo, Tomasa (*with* de Baets, Bernard) Aggregation operators defined by k-order additive/maxitive fuzzy measures. (English summary) **2000b:28022**
Chang, San-Chyi *see* **Yao, Jing Shing**
Cho, Sung Jin *see* **Lee, Byung Soo et al., 2000k:28034**
de Cooman, Gert (*with* Aeyels, Dirk) Supremum preserving upper probabilities. (English summary) **2000g:28044**
— *see also* **Janssen, Hugo et al., 2000c:28031**
Fang, Jian *see* **Wang, Zhenyuan et al.**
Feng, Jing (*with* Li, Bing[1]; Wu, Meng Da) Vague convergences of sequences of compact fuzzy measures. (Chinese. English and Chinese summaries)
Heilpern, Stanisław Applications of non-additive set functions in decision making and insurance. (English summary) (*see* **2000g:00057b**)
Honda, Aoi (*with* Okazaki, Yoshiaki) Invariance of fuzzy measure. **2000g:28045**
— (*with* Okazaki, Yoshiaki) Invariance and subordination of fuzzy measures. (Japanese) (*see* **2000k:00047**)
Jang, Lee-Chae (*with* Kwon, Joong Sung) On the representation of Choquet integrals of set-valued functions, and null sets. (English summary)
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Jiang, Qingshan (*with* Wang, Shengrui; Ziou, Diemel) A further investigation for fuzzy measures on metric spaces. (English summary) **2000g:28046**
— (*with* Wang, Shengrui; Ziou, Diemel; Wang, Zhenyuan; Klir, George J.) Pseudometric generating property and autocontinuity of fuzzy measures. (English summary)
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Kolesárová, Anna Aggregation of k-order maxitive fuzzy measures. (English summary)
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Lee, Byung Soo (*with* Cho, Sung Jin; Lee, Gue Myung; Kim, Do Sang) Integration of generalized fuzzy number-valued mappings. (English summary) **2000k:28034**
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Leung, Kwong-Sak *see* **Wang, Zhenyuan et al.**
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Li, Lushu (*with* Sheng, Zhao Han) The structural properties and weak convergence of fuzzy orthogonal measures. (English summary)
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Navara, Mirko Characterization of measures based on strict triangular norms. (English summary) **2000i:28024**
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Pap, Endre Applications of null-additive set functions in mathematics. (English summary) **2000h:28018**
— (*with* Štajner, Ivana) Generalized pseudo-convolution in the theory of probabilistic metric spaces, information, fuzzy numbers, optimization, system theory. (English summary) **2000b:28023**
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Radojević, Dragan Logical interpretation of discrete Choquet integral defined by general measure. (English summary)
Seng, Shi Zi (*with* Wu, Cong Xin) (D) generalized fuzzy integrals. (Chinese. English and Chinese summaries)
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Srivastava, Pramila (*with* Khare, Mona) Conditional entropy and Rokhlin metric. (English summary) **2000h:28019**
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— *see also* **Seng, Shi Zi**
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— (*with* Wu, Yong-Hong; Teo, Kok Lay) Extension of fuzzy number-valued possibility measures on a complete lattice. (English summary)
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Khare, Mona Sufficient families and entropy of inverse limit. (English summary) **2000i:37004**
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28E15 Other connections with logic and set theory

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Weihrauch, Klaus Computability on the probability measures on the Borel sets of the unit interval. (English summary) **2000k:03147**

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30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

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(Yang, Chung-Chun) *see* **Workshop: Value Distribution Theory and its Applications**

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Pap, Endre ★ Complex analysis through examples and exercises. (English summary) **2000m:30001**
Shakarchi, Rami ★ Problems and solutions for complex analysis. (English summary) **2000g:30001**
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(Riemann, Georg Friedrich Bernhard) *see* **Neuenschwander, E., 2000h:01017**
(Schwarz, Hermann Amandus) *see* **Osserman, Robert, 2000i:30049**
Ullrich, Peter *see* **Elstrodt, Jürgen, 2000f:01016**

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30–06 Proceedings, conferences, collections, etc.

(Bojarski, Bogdan) *see* **Quasiconformal geometry and dynamics, 2000c:30003**
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30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

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30A10 Inequalities in the complex domain

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30Bxx Series expansions

30B10 Power series (including lacunary series)

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30B30 Boundary behavior of power series, over-convergence

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30B60 Completeness problems, closure of a system of functions

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30B70 Continued fractions [see also 11A55, 40A15]

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Kuchminskaya, Kh. I. Some properties of two-dimensional continued fractions. (English summary) **2000e:30007**
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Lorentzen, Lisa Convergence criteria for continued fractions $K(a_n/1)$ based on value sets. (English summary) **2000i:30006**
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— (*with* McCabe, J. H.; Sri Ranga, A.) On a symmetry in strong distributions. (English summary) **2000e:30074**
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30Cxx Geometric function theory

30C10 Polynomials

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Brown, Gavin[1] (*with* Koumandos, Stamatis) On a theorem of S. Ruscheweyh. (English summary) **2000e:30008**
Dewan, K. K. (*with* Yadav, R. S.; Pukhta, Mohammad Sayeed) Inequalities for a polynomial and its derivative. (English summary) **2000e:30009**
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Jain, Vinay Kumar On polynomials having zeros in closed exterior or closed interior of a circle. (English summary) **2000a:30013**
Katsoprinakis, Emmanuel S. On the complex Rolle set of a polynomial. (English summary) **2000d:30006**
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Lubinsky, D. S. Small values of polynomials: Cartan, Pólya and others. (English summary) **2000k:30006**
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— (*with* Rather, Nisar Ahmed) Some compact generalizations of Zygmund-type inequalities for polynomials. (English summary) **2000j:30003**

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30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

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Shah, W. M. *see* **Aziz, Abdul**[1]**, 2000d:30007** *and* **2000e:30011**

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30C20 Conformal mappings of special domains

Chuaqui, Martin (*with* Pommerenke, Christian) Characteristic properties of Nehari functions. (English summary) **2000d:30011**

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Embree, Mark (*with* Trefethen, Lloyd N.) Green's functions for multiply connected domains via conformal mapping. (English summary) **2000h:30053**
FitzGerald, Carl H. (*with* Weening, Frederick) Existence and uniqueness of rectilinear slit maps. (English summary) **2000k:30012**
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Poritz, Jonathan A. *see* **Iozzi, Alessandra, 2000k:58014**
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30C25 Covering theorems in conformal mapping theory

Andreian Cazacu, Cabiria Contributions to Stoilow's theory of Riemann coverings. (English summary) **2000b:30008**
Graham, Ian Growth and covering theorems associated with the Roper-Suffridge extension operator. (English summary) **2000b:30009**
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Pommerenke, Christian *see* **Chuaqui, Martin, 2000d:30011**
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30C30 Numerical methods in conformal mapping theory [see also 65E05]

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30C35 General theory of conformal mappings

Akeroyd, John Conformal images of tangential and nontangential arcs. **2000m:30010**
Aleksandrov, I. A. Conformal mappings of a half-plane onto domains with shift symmetry. (Russian) **2000j:30009**
Carmona, J. J. (*with* Pommerenke, Christian) On the argument oscillation of conformal maps. **2000i:30014**
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— (*with* Ahuja, O. P.) On meromorphic starlike and convex functions. (English summary) (*see* **2000m:30003**)
— (*with* Owa, Shigeyoshi; Ikeda, Akira[2]) On the strongly starlikeness of multivalently convex functions of order α. (*see* **2000m:30003**)
— (*with* Owa, Shigeyoshi; Saitoh, Hitoshi; Ahuja, O. P.) On the quotient of the analytic representations of convex and starlike functions. (English summary) (*see* **2000m:30003**)
— *see also* **Lecko, Adam et al., 2000m:30020** *and* **Owa, Shigeyoshi et al.,** (**2000m:30003**)
Obradović, Milutin A class of univalent functions. (English summary) **2000i:30028**
— Starlikeness of certain integral transforms. (English summary) (*see* **2000c:00029**)
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— (*with* Sălăgean, Grigore Ştefan) Starlike or convex of complex order functions with negative coefficients. (English summary) **2000c:30030**
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— (*with* Pascu, Nicolae N.; Pescar, Virgil) Univalency of certain analytic functions. (English summary) (*see* **2000m:30003**)
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— *see also* **Kim, Yong Chan[1], 2000m:30019**
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Fournier, Richard (*with* Ruscheweyh, Stephan) Free boundary value problems for analytic functions in the closed unit disk. (English summary) **2000b:30059**
Frasin, B. A. Generalization to classes for analytic functions with negative coefficients. (English summary) **2000i:30040**
Godula, Janusz (*with* Starkov, Viktor V.) On regularity theorems for linearly invariant families of analytic functions in the unit polydisk. II. (English summary) **2000m:32006**
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Hamada, Hidetaka (*with* Kohr, Gabriela) Spirallike mappings on bounded balanced pseudo-convex domains in $\mathbf{C}^n$. (English summary) **2000g:32018**
— (*with* Liczberski, Piotr) A starlikeness criterion for holomorphic mappings on balanced pseudoconvex domains. (English summary) **2000e:32018**
— (*with* Kohr, Gabriela; Liczberski, Piotr) Φ-like holomorphic mappings on balanced pseudoconvex domains. (English summary) **2000f:32014**
— Univalent holomorphic mappings on a complex manifold with a C^1 exhaustion function. (English summary) **2000f:32015**
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— (*with* Kohr, Mirela) On some sufficient conditions of starlikeness of order α in $\mathbf{C}^n$. (English summary) **2000c:32057**
— (*with* Liczberski, Piotr) General partial differential subordinations for holomorphic mappings in $\mathbf{C}^n$. (English summary) **2000k:32014**
— (*with* Liczberski, Piotr) On strongly starlikeness of order alpha in several complex variables. (English summary) **2000f:32016**
— On starlikeness and strongly starlikeness of order alpha in $\mathbf{C}^n$. **2000f:32017**
— On some distortion results for convex mappings in $\mathbf{C}^n$. (English summary) **2000f:32018**
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Kornev, Konstantin (*with* Vasil′ev, A. Yu.) Geometric properties of the solutions of a Hele-Shaw type equation. (English summary) **2000m:76045**
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Liu, Hao On spirallike mappings in several complex variables. (English summary) **2000f:32020**
(Minda, David) *see* **Gong, Sheng, 2000c:32054**
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Pap, Margit Integral operators which preserve the subordination. (English summary) **2000e:30042**
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Vasil′ev, A. Yu. *see* **Kornev, Konstantin, 2000m:76045**

30C50 Coefficient problems for univalent and multivalent functions

Darus, Maslina *see* **Janteng, Aini**
(FitzGerald, Carl H.) *see* **Gong, Sheng, 2000j:30029**
Frasin, B. A. Generalization to classes for analytic functions with negative coefficients. (English summary) **2000i:30040**
Gong, Sheng ★ The Bieberbach conjecture. **2000j:30029**
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— (*with* Srivastava, Hari M.; Zhang, Yu-Lin) Inequalities for some coefficients of univalent functions. (English summary) **2000b:30028**
Majchrzak, Wiesław (*with* Szwankowski, A.) Coefficient problem for some class of functions nonvanishing in the unit disk. (English summary) **2000h:30026**
Pescar, Virgil On some integral operations which preserve the univalence. **2000d:30022**
Śladkowska, Janina Estimate of the third coefficient of a univalent, bounded, symmetric and nonvanishing function. (English summary) **2000a:30033**
Srivastava, Hari M. *see* **Li, Jian Lin et al., 2000b:30028**
Szwankowski, A. *see* **Majchrzak, Wiesław, 2000h:30026**
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— Matrix theorems for the de Branges weight functions. (English summary) **2000k:30019**
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Goluzina, E. G. On the set of values of $f(z_0)$ in a class of typically real functions. (Russian. Russian summary) **2000g:26013**
Jahangiri, Jay M. (*with* Silverman, Herb) Meromorphic univalent harmonic functions with negative coefficients. (English summary) **2000j:30016**
Li, Jian Lin Some properties of two integral operators. (English summary) **2000d:30018**
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— Generalized Zalcman conjecture for starlike and typically real functions. (English summary) **2000b:30021**
Minda, David *see* **Ma, Wan Cang, 2000j:30020**
Mishra, Akshaya Kumar (*with* Sahu, Pravati) Closed convex hull of the family of multivalently close-to-convex functions of order β. (English summary) **2000c:30026**
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30C55 General theory of univalent and multivalent functions

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Aouf, M. K. (*with* Darwish, H. E.; Attiya, A. A.) On inequalities for certain multivalent functions involving Ruscheweyh derivative. (English summary) **2000h:30027**
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30C70 Extremal problems for conformal and quasiconformal mappings, variational methods

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30C75 Extremal problems for conformal and quasiconformal mappings, other methods

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30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

(Ahlfors, Lars Valerian) *see* **Osserman, Robert, 2000i:30049**
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30C85 Capacity and harmonic measure in the complex plane [see also 31A15]

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30C99 None of the above, but in this section

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30Dxx Entire and meromorphic functions, and related topics

30D05 Functional equations in the complex domain, iteration and composition of analytic functions [see also 34Mxx, 37Fxx, 39–XX]

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— (*with* Wallisser, R.) Maße für die lineare Unabhängigkeit von Werten ganz transzendenter Lösungen gewisser Funktionalgleichungen. [Measures of linear independence of values of entire transcendental solutions of certain functional equations] **2000m:11060**
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30D20 Entire functions, general theory

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30D30 Meromorphic functions, general theory

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30D35 Distribution of values, Nevanlinna theory

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30D55 H^p-classes

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Stessin, Michael I. Wold decomposition of the Hardy space and Blaschke products similar to a contraction. (English summary) **2000g:47036**
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30D60 Quasi-analytic and other classes of functions

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30D99 None of the above, but in this section

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30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

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Arias, Alvaro (*with* Popescu, Gelu) Noncommutative interpolation and Poisson transforms. II. (English summary) **2000i:47148**
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30E10 Approximation in the complex domain

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Suárez, Daniel A counterexample for H^∞ approximable functions. (English summary) **2000m:30047**
Trefethen, Lloyd N. *see* **Embree, Mark, 2000h:30053**
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30E15 Asymptotic representations in the complex domain

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30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

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Bartnik, Dorota On some class of functions with an integral representation involving complex measures. (English summary) **2000c:30074**
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30E25 Boundary value problems [see also 45Exx]

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Airapetyan, G. M. On the Riemann-Hilbert problem for n-holomorphic functions. (Russian. English and Russian summaries) **2000d:30059**
— (*with* Petrosyan, V. Sh.) The Hilbert boundary value problem in a half-plane in the sense of L_1-convergence. (Russian. English and Russian summaries) **2000m:30049**
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Bantsuri, R. Boundary value problems of the theory of analytic functions with displacements. (English summary) **2000b:30058**
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Begehr, Heinrich G. W. Systems of first order partial differential equations—a hypercomplex approach. (English summary) **2000b:35022**
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30Fxx Riemann surfaces

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30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

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Costa, Antonio F. (*with* Porto Fereira da Silva, A. M.) On anticonformal automorphisms of order > 2 of Riemann surfaces. (English summary) **2000h:30060**
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30F20 Classification theory of Riemann surfaces

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30F25 Ideal boundary theory

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Nakai, Mitsuru Existence of quasiisometric mappings and Royden compactifications. (*see* **2000m:31001**)
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30F30 Differentials on Riemann surfaces

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30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]

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Bujalance, Emilio (*with* Conder, Marston) On cyclic groups of automorphisms of Riemann surfaces. (English summary) **2000g:20098**
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Chow, Richard Top speed holomorphic motions. (English summary) **2000f:30030**
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Gardiner, Frederick (*with* Keen, Linda) Holomorphic motions and quasi-Fuchsian manifolds. (English summary) **2000k:30023**
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30F40 Kleinian groups [see also 20H10]

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31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

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31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

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31A20 Boundary behavior (theorems of Fatou type, etc.)

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31A25 Boundary value and inverse problems

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31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

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Shimorin, Sergei *see* **Hedenmalm, Håkan et al., 2000h:31001**
Zhao, Zhen[1] (*with* Quan, Chenfang) Dirichlet's problems for biharmonic functions. (English and Chinese summaries) **2000f:31003**

Items with secondary classifications in 31A30

Jeon, Youngmok New boundary element formulas for the biharmonic equation. (English summary) **2000c:31001**
— Scalar boundary integral equation formulas for the biharmonic equation—numerical experiments. (English summary) (*see* **2000k:00045**)
Owen, Mark P. The Hardy-Rellich inequality for polyharmonic operators. (English summary) **2000j:35210**
Volkov, E. A. On a property of solutions of the Poisson equation on polygons. (Russian. Russian summary) **2000j:35050**

31A35 Connections with differential equations

Items with secondary classifications in 31A35

Imai, Hideo[1] On Picard dimensions of nonpositive densities in Schrödinger equations. (English summary) **2000c:35030**
Satō, Takeyoshi Boundary behavior of positive solutions of $\Delta u = Pu$ on a Riemann surface. (English summary) **2000j:30069**

31A99 None of the above, but in this section

Damelin, S. B. (*with* Kuijlaars, A. B. J.) The support of the equilibrium measure in the presence of a monomial external field on $[-1, 1]$. (English summary) **2000g:31003**
Deift, P. A. (*with* Kriecherbauer, Thomas; McLaughlin, K. T-R) New results on the equilibrium measure for logarithmic potentials in the presence of an external field. (English summary) **2000j:31003**
Kriecherbauer, Thomas *see* **Deift, P. A. et al., 2000j:31003**
Kuijlaars, A. B. J. *see* **Damelin, S. B., 2000g:31003**
McLaughlin, K. T-R *see* **Deift, P. A. et al., 2000j:31003**

Items with secondary classifications in 31A99

Bell, Steven R. Ahlfors maps, the double of a domain, and complexity in potential theory and conformal mapping. (English summary) **2000m:30012**
Böttger, Ulrich (*with* Plümper, Benedikt; Rupp, Rudolf) Complex potentials. (English summary) **2000c:30080**
Bridges, Douglas S. (*with* Wang, Yuchuan) Constructive aspects of the Dirichlet problem. (English summary) **2000f:03184**
Embree, Mark (*with* Trefethen, Lloyd N.) Green's functions for multiply connected domains via conformal mapping. (English summary) **2000h:30053**
Grudtsyn, N. N. Structural representation of the Green formula for potential fields in piecewise-constant media. (Russian. Russian summary) (*see* **2000k:00037**)
Martensen, Erich A spectral property of the electrostatic integral operator. (English summary) **2000g:78014**
Plümper, Benedikt *see* **Böttger, Ulrich et al., 2000c:30080**
Rupp, Rudolf *see* **Böttger, Ulrich et al., 2000c:30080**
Trefethen, Lloyd N. *see* **Embree, Mark, 2000h:30053**
Wang, Yuchuan *see* **Bridges, Douglas S., 2000f:03184**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

Abdullaev, B. I. *see* **Imomkulov, S. A., 2000b:31002**
Aikawa, Hiroaki (*with* Mizutani, Tomohiko) Martin boundary of a uniformly John domain. (English summary) (*see* **2000m:31001**)
— Integrability of superharmonic functions in a John domain. (English summary) **2000c:31002**
Arakelyan, N. U. (*with* Shahgholian, Henrik) Propagation of smallness for harmonic and analytic functions in arbitrary domains. (English summary) **2000j:31004**
Armitage, David H. (*with* Gardiner, Stephen J.) Best harmonic and superharmonic L^1-approximants in strips. (English summary) **2000j:31005**
— Reflection and uniqueness theorems for harmonic functions. (English summary) **2000c:31003**
Beardon, A. F. (*with* Rhodes, A. D.; Rippon, P. J.) Schwarz lemma for harmonic functions. (English summary) **2000h:31003**
Cho, Yong-Kum Inequalities related to H^p smoothness of Sobolev type. (English summary) **2000j:31006**
Escauriaza, L. The modified Bers conjecture. (*see* **2000b:00010**)
Fuglede, Bent The Dirichlet Laplacian on finely open sets. (English summary) **2000a:31004**
Gardiner, Stephen J. Growth properties of superharmonic functions along rays. (English summary) **2000m:31004**
— *see also* **Armitage, David H., 2000j:31005**
Hile, G. N. (*with* Stanoyevitch, Alexander) Gradient bounds for harmonic functions Lipschitz on the boundary. (English summary) **2000k:31007**
Imomkulov, S. A. (*with* Abdullaev, B. I.) Removable singularities of subharmonic functions with finite Dirichlet integral. (Russian. English and Uzbek summaries) **2000b:31002**
Kosheleva, T. M. *see* **Tovmasyan, N. E., 2000f:31005**
Lenkhorova, I. A. On the rate of uniform harmonic approximation on compact sets in $\mathbb{R}^3$. (Russian. English summary)
Ligocka, Ewa On the Hartogs-type series for harmonic functions on Hartogs domains in $\mathbb{R}^n \times \mathbb{R}^m$, $m \geq 2$. (English summary) **2000m:31005**
Miyamoto, Ikuko (*with* Yoshida, Hidenobu) Harmonic functions in a cylinder with the normal derivatives vanishing on the boundary. (*see* **2000m:31001**)
Mizutani, Tomohiko *see* **Aikawa, Hiroaki, (2000m:31001)**
Nakai, Mitsuru Harmonic functions expressible as Dirichlet solutions. (English summary) **2000f:31004**
Rhodes, A. D. *see* **Beardon, A. F. et al., 2000h:31003**
Rippon, P. J. *see* **Beardon, A. F. et al., 2000h:31003**
Shahgholian, Henrik *see* **Arakelyan, N. U., 2000j:31004**
Stanoyevitch, Alexander *see* **Hile, G. N., 2000k:31007**
Tovmasyan, N. E. (*with* Kosheleva, T. M.) A Schwarz lemma for harmonic functions in the ball and its application. (Russian. English and Russian summaries) **2000f:31005**
Wu, Jang-Mei Growth and asymptotic sets of subharmonic functions. II. (English summary) **2000f:31006**
Yoshida, Hidenobu *see* **Miyamoto, Ikuko, (2000m:31001)**

Items with secondary classifications in 31B05

Chen, Jiecheng A simple proof of an inequality dominating the area integral by the nontangential maximal function. (English summary) **2000j:42029**
Cheng, Jin[2] (*with* Hon, Y. C.; Yamamoto, Masahiro) Stability in line unique continuation of harmonic functions: general dimensions. (English summary) **2000b:35034**
Dimitrovski, Dragan (*with* Tselakoska-Jordanova, Vesna) Laplace equations and harmonic functions of two independent complex variables in the analytic case. (Macedonian. English and Macedonian summaries)
Hon, Y. C. *see* **Cheng, Jin[2] et al., 2000b:35034**

Jevtić, Miroljub (*with* Pavlović, Miroslav) Littlewood-Paley type inequalities for $\mathcal{M}$-harmonic functions. (English summary) **2000c:32021**
Kurokawa, Takahide Local integral representations of smooth functions and interpolation inequalities. (*see* **2000m:31001**)
Motos, Joaquín (*with* Pérez-Esteva, Salvador) On Bell's duality theorem for harmonic functions. (English summary) **2000m:46057**
Nikolaev, A. G. Integral representations of harmonic functions, and addition theorems. (Russian. English summary) **2000c:35015**
Pavlović, Miroslav *see* **Jevtić, Miroljub, 2000c:32021**
Pérez-Esteva, Salvador *see* **Motos, Joaquín, 2000m:46057**
Pinsky, Ross G. A probabilistic approach to positive harmonic functions in a slab with alternating Dirichlet and Neumann boundary conditions. (English summary) **2000j:35049**
Pujar, S. S. (*with* Waghe, B. S.) Integral formulae in Euclidean space and their applications. (English summary) **2000f:35041**
Sakai, Makoto Linear combinations of harmonic measures and quadrature domains of signed measures with small supports. (English summary) **2000k:31012**
Shimomura, Katsunori The determination of caloric morphisms on Euclidean domains. (Japanese) (*see* **2000m:31001**)
Taliaferro, Steven D. On the growth of superharmonic functions near an isolated singularity. I. **2000j:35288**
Tselakoska-Jordanova, Vesna *see* **Dimitrovski, Dragan**
Waghe, B. S. *see* **Pujar, S. S., 2000f:35041**
Wheeden, Richard L. Weighted L^q estimates for derivatives of harmonic functions. (*see* **2000m:35001**)
Yamada, Masahiro Carleson inequalities in classes of derivatives of harmonic Bergman functions with $0 < p \leq 1$. (English summary) **2000b:46056**
Yamamoto, Masahiro *see* **Cheng, Jin[2] et al., 2000b:35034**
Yanushauskas, Algimantas On the oblique derivative problem for harmonic functions. (Russian. Lithuanian summary) **2000j:35051**

31B10 Integral representations, integral operators, integral equations methods

Casado-Díaz, Juan Relaxation of a quadratic functional defined by a nonnegative unbounded matrix. (English summary) **2000f:31007**
Lu, Guozhen (*with* Wheeden, Richard L.) An optimal representation formula for Carnot-Carathéodory vector fields. **2000a:31005**
Soytürk, Emine On the asymptotic behavior of three-dimensional spherical convolutions. (English summary) **2000a:31006**
Symeonidis, Elevtherios The Poisson integral as an appropriate mean value. (English summary) **2000b:31003**
Wheeden, Richard L. *see* **Lu, Guozhen, 2000a:31005**

Items with secondary classifications in 31B10

Aikawa, Hiroaki Dirichlet problem in an exterior domain with potential in a weighted Lebesgue class. (English summary) **2000d:35036**
Cho, Yong-Kum Inequalities related to H^p smoothness of Sobolev type. (English summary) **2000j:31006**
Hofmann, Steven (*with* Lewis, John L.) The L^p regularity problem for the heat equation in non-cylindrical domains. (English summary) **2000j:35118**
Jeon, Youngmok New boundary element formulas for the biharmonic equation. (English summary) **2000c:31001**
Lewis, John L. *see* **Hofmann, Steven, 2000j:35118**
Medková, Dagmar Solution of the Dirichlet problem for the Laplace equation. (English summary) **2000a:35040**
Yanushauskas, Algimantas On the oblique derivative problem for harmonic functions. (Russian. Lithuanian summary) **2000j:35051**
Zieniuk, Eugeniusz Analytical modification of the boundary integral equations for the boundaries approximated by linear segments. (English and Polish summaries) **2000m:65164**

31B15 Potentials and capacities, extremal length

Aikawa, Hiroaki (*with* Ohtsuka, Makoto) Extremal length of vector measures. (English summary) **2000i:31001**
Aseev, V. V. Continuity of conformal capacity for condensers with uniformly perfect plates. (Russian. Russian summary) **2000k:31008**
Barbulescu, Alina About the (α, p)-capacity of a set. (English summary)
Caraman, Petru Some remarks on the equality between the p-module and the p-capacity. (French summary) **2000b:31004**
— New results on p-capacity and the p-module. (Italian) **2000k:31009**
— New results about the equality between the p-module and the p-capacity. (English summary) **2000m:31006**
Doğru, Ogün *see* **Gadjiev, A. D., 2000h:31004**
Gadjiev, A. D. (*with* Doğru, Ogün) On combination of Riesz potentials with non-isotropic kernels. (English summary) **2000h:31004**
Ohtsuka, Makoto On (p, ω)-precise functions whose derivatives are singular integrals. (*see* **2000m:31001**)
— *see also* **Aikawa, Hiroaki, 2000i:31001**
Siegel, David (*with* Talvila, Erik) Pointwise growth estimates of the Riesz potential. (English summary) **2000g:31004**
Talvila, Erik *see* **Siegel, David, 2000g:31004**

Items with secondary classifications in 31B15

Andrievskiĭ, Vladimir (*with* Blatt, Hans-Peter; Götz, Mario) Discrepancy estimates on the sphere. (English summary) **2000h:11080**
Blatt, Hans-Peter *see* **Andrievskiĭ, Vladimir et al., 2000h:11080**
Chegolin, A. P. *see* **Nogin, Vladimir A., 2000a:47107**
Dubinin, V. N. Asymptotics of the modulus of a degenerate condenser, and some of its applications. (Russian. Russian summary) **2000f:31002**
Falconer, K. J. (*with* O'Neil, T. C.) Convolutions and the geometry of multifractal measures. (English summary) **2000i:28007**
Götz, Mario *see* **Andrievskiĭ, Vladimir et al., 2000h:11080**
Grigor'yan, Alexander (*with* Yau, Shing-Tung) Decomposition of a metric space by capacitors. (English summary) **2000b:58055**
Hajłasz, Piotr (*with* Kinnunen, Juha) Hölder quasicontinuity of Sobolev functions on metric spaces. (English summary) **2000e:46046**
Khoromskiĭ, B. N. *see* **Schmidt, Gunther, 2000c:65112**
Kinnunen, Juha *see* **Hajłasz, Piotr, 2000e:46046**
Kühnau, Reiner Die Kapazität dünner Kondensatoren. (English and German summaries) [The capacity of thin condensers] **2000g:78013**
Maagli, Habib (*with* Masmoudi, Syrine) Sur les solutions d'un opérateur différentiel singulier semi-linéaire. (English summary) [Solutions for a semilinear singular differential operator] **2000h:34036**
Masmoudi, Syrine *see* **Maagli, Habib, 2000h:34036**
Nogin, Vladimir A. (*with* Chegolin, A. P.) Inversion of some potential-type operators with singularities of kernels on a cone. (Russian) **2000a:47107**
O'Neil, T. C. *see* **Falconer, K. J., 2000i:28007**
Pestana, Domingo (*with* Rodríguez García, José Manuel) Capacity distortion by inner functions. (English summary) **2000d:32050**
Rodríguez García, José Manuel *see* **Pestana, Domingo, 2000d:32050**
Schmidt, Gunther (*with* Khoromskiĭ, B. N.) Boundary integral equations for the biharmonic Dirichlet problem on nonsmooth domains. (English summary) **2000c:65112**
Yamaguchi, Hiroshi[1] Complex and vector potential theory. (Japanese) **2000d:32051**
Yau, Shing-Tung *see* **Grigor'yan, Alexander, 2000b:58055**

31B20 Boundary value and inverse problems

Bahrami, Farid (*with* Chademan, Arsalan) Existence of unbounded quadrature domains for the p-Laplace operator. (English and Persian summaries) **2000m:31007**
Chademan, Arsalan *see* **Bahrami, Farid, 2000m:31007**
Dăneţ, Nicolae Boundary values of vector-valued harmonic functions. (Romanian. English summary) **2000a:31007**
Kilpeläinen, Tero Singular solutions to p-Laplacian type equations. (English summary) **2000k:31010**
Kireĭtov, V. R. The Hunt property and the unique solvability of the inverse problem of potential theory for a class of generalized Yukawa potentials. (Russian. Russian summary) **2000f:31008**
Král, Josef *see* **Medková, Dagmar, 2000k:31011**
Liu, Xiao Feng A degenerate relaxed Dirichlet problem. (Chinese. English and Chinese summaries)
Maz'ya, Vladimir G. (*with* Solov'ëv, Aleksandr Artëmovich) Integral equations of logarithmic potential theory on contours with a cusp in Hölder spaces. (Russian. Russian summary) **2000f:31009**
Medková, Dagmar (*with* Král, Josef) Essential norms of the integral operator corresponding to the Neumann problem for the Laplace equation. **2000k:31011**
Sakai, Makoto Linear combinations of harmonic measures and quadrature domains of signed measures with small supports. (English summary) **2000k:31012**
Solov'ëv, Aleksandr Artëmovich *see* **Maz'ya, Vladimir G., 2000f:31009**

Items with secondary classifications in 31B20

Beardon, A. F. (*with* Rhodes, A. D.; Rippon, P. J.) Schwarz lemma for harmonic functions. (English summary) **2000h:31003**
Garofalo, Nicola (*with* Sartori, Elena) Symmetry in exterior boundary value problems for quasilinear elliptic equations via blow-up and a priori estimates. (English summary) **2000a:35069**
Hähner, Peter An inverse problem in electrostatics. (English summary) **2000g:78012**
Karachik, V. V. The generalized Neumann problem for harmonic functions in a half-space. (Russian. Russian summary) **2000m:35049**
Kas'yanov, E. Yu. On the solution of some boundary value problems for functions harmonic in multidimensional domains by the reproducing kernel method. (Russian) (*see* **2000k:65007**)
Mitrea, Dorina Boundary value problems for harmonic vector fields on nonsmooth domains. (*see* **2000k:00038**)
Mitrea, Marius The oblique derivative problem for general elliptic systems in Lipschitz domains. (*see* **2000k:00038**)
Mizuta, Yoshihiro (*with* Shimomura, Tetsu) Hyperplane integrals of BLD and monotone BLD functions. (*see* **2000m:31001**)
Nakai, Mitsuru Harmonic functions expressible as Dirichlet solutions. (English summary) **2000f:31004**
Rhodes, A. D. *see* **Beardon, A. F. et al., 2000h:31003**
Rippon, P. J. *see* **Beardon, A. F. et al., 2000h:31003**
Sartori, Elena *see* **Garofalo, Nicola, 2000a:35069**
Shimomura, Tetsu *see* **Mizuta, Yoshihiro, (2000m:31001)**

31B25 Boundary behavior

Lin, Feng *see* **Shu, Zhi Biao**
Llorente, J. G. Boundary values of harmonic Bloch functions in Lipschitz domains: a martingale approach. (English summary) **2000f:31010**
Rzepecki, Leszek Boundary behavior of non-isotropic potentials in the unit ball of $\mathbf{C}^n$. (English summary) **2000i:31002**
Shu, Zhi Biao (*with* Lin, Feng) Boundary limits of Poisson integrals in the unit ball of $\mathbf{C}^n$. (Chinese. English and Chinese summaries)
Topuriya, S. B. Generalized derivatives and boundary properties of the derivatives of the Poisson integral for the half-space $\mathbf{R}^{k+1}_+$ $(k > 1)$. (Russian. English and Russian summaries) **2000f:31011**

Watanabe, Hisako Layer heat potentials for a bounded cylinder with fractal lateral boundary. (English summary) **2000h:31005**
Wen, Zhi Ying (*with* Zhang, Yi Ping) Some boundary fractal properties of the convolution transform of measures by an approximate identity. (Chinese. English and Chinese summaries) **2000a:31008**
Zhang, Yi Ping *see* **Wen, Zhi Ying**, **2000a:31008**

Items with secondary classifications in 31B25

Aikawa, Hiroaki (*with* Mizutani, Tomohiko) Martin boundary of a uniformly John domain. (English summary) (*see* **2000m:31001**)
Chen, Zhen-Qing Multidimensional symmetric stable processes. (English summary) **2000f:60115**
Ferrari, Fausto On boundary behavior of harmonic functions in Hölder domains. (English summary) **2000b:35040**
Hahn, K. T. (*with* Stoll, Manfred; Youssfi, E. H.) Invariant potentials and tangential boundary behavior of $\mathscr{M}$-subharmonic functions in the unit ball. (English summary) **2000d:32011**
Maagli, Habib (*with* Masmoudi, Syrine) Sur les solutions d'un opérateur différentiel singulier semi-linéaire. (English summary) [Solutions for a semilinear singular differential operator] **2000h:34036**
Masmoudi, Syrine *see* **Maagli, Habib**, **2000h:34036**
Mizutani, Tomohiko *see* **Aikawa, Hiroaki**, (**2000m:31001**)
Nakai, Mitsuru Harmonic functions expressible as Dirichlet solutions. (English summary) **2000f:31004**
Pestana, Domingo (*with* Rodríguez Garcia, José Manuel) Capacity distortion by inner functions. (English summary) **2000d:32050**
Rodríguez Garcia, José Manuel *see* **Pestana, Domingo**, **2000d:32050**
Stoll, Manfred *see* **Hahn, K. T. et al.**, **2000d:32011**
Watson, Neil A. Initial and internal limits of supertemperatures. (English summary) **2000j:31007**
Wen, Zhi Ying (*with* Zhang, Yi Ping) Some boundary fractal properties of the convolution transform of measures by an approximate identity. (English summary) **2000k:28019**
Youssfi, E. H. *see* **Hahn, K. T. et al.**, **2000d:32011**
Zhang, Yi Ping *see* **Wen, Zhi Ying**, **2000k:28019**

31B30 Biharmonic and polyharmonic equations and functions

Anandam, Victor Biharmonic Green functions in a Riemannian manifold. (English summary) **2000g:31005**
Besov, K. O. On the boundary behavior of components of polyharmonic functions. (Russian. Russian summary) **2000b:31005**
Futamura, Toshihide (*with* Kishi, Kyoko; Mizuta, Yoshihiro) A generalization of the Liouville theorem to polyharmonic functions. (*see* **2000m:31001**)
Kishi, Kyoko *see* **Futamura, Toshihide et al.**, (**2000m:31001**)
Mizuta, Yoshihiro (*with* Shimomura, Tetsu) Hyperplane integrals of BLD and monotone BLD functions. (*see* **2000m:31001**)
— *see also* **Futamura, Toshihide et al.**, (**2000m:31001**)
Pavlović, Miroslav On a sharp inequality for the Laplacian of a polyharmonic function. (English summary) **2000b:31006**
Shimomura, Tetsu *see* **Mizuta, Yoshihiro**, (**2000m:31001**)

Items with secondary classifications in 31B30

Anandam, Victor *see* **Othman, S. I.**, **2000f:31017**
Dalmasso, Robert Existence and uniqueness results for polyharmonic equations. **2000a:35068**
Deng, Yin Bin *see* **Zeng, Xian Zhong et al.**, **2000b:35095**
Friedman, Avner (*with* Hu, Bei; Velázquez, J. J. L.) Asymptotics for the biharmonic equation near the tip of a crack. **2000c:74049**
Hu, Bei *see* **Friedman, Avner et al.**, **2000c:74049**
Jeon, Youngmok New boundary element formulas for the biharmonic equation. (English summary) **2000c:31001**
Khoromskiĭ, B. N. *see* **Schmidt, Gunther**, **2000c:65112**
Lakkis, Omar Existence of solutions for a class of semilinear polyharmonic equations with critical exponential growth. (English summary) **2000k:35074**
Othman, S. I. (*with* Anandam, Victor) Liouville-Picard theorem in harmonic spaces. (English summary) **2000f:31017**
Peng, Shuang Jie *see* **Zeng, Xian Zhong et al.**, **2000b:35095**
Schmidt, Gunther (*with* Khoromskiĭ, B. N.) Boundary integral equations for the biharmonic Dirichlet problem on nonsmooth domains. (English summary) **2000c:65112**
Velázquez, J. J. L. *see* **Friedman, Avner et al.**, **2000c:74049**
Xu, Xing Ye Positive entire solutions for a class of singular nonlinear polyharmonic equations in $\mathbf{R}^2$. (Chinese. English and Chinese summaries) **2000g:35055**
Zeng, Xian Zhong (*with* Deng, Yin Bin; Peng, Shuang Jie) A barrier theorem for a biharmonic problem and its application. (Chinese. English and Chinese summaries) **2000b:35095**

31B35 Connections with differential equations

Menon, V. J. On solving the Poisson equation for a "point" charge. (English summary) **2000b:31007**
Watson, Neil A. Initial and internal limits of supertemperatures. (English summary) **2000j:31007**

Items with secondary classifications in 31B35

Aikawa, Hiroaki Dirichlet problem in an exterior domain with potential in a weighted Lebesgue class. (English summary) **2000d:35036**
Bezzarga, Mounir Co-excessive functions and duality for semi-dynamical systems. **2000b:31012**
Escauriaza, L. The modified Bers conjecture. (*see* **2000b:00010**)
Imai, Hideo[1] On Picard dimensions of nonpositive densities in Schrödinger equations. (English summary) **2000c:35030**
Kireitov, V. R. The Hunt property and the unique solvability of the inverse problem of potential theory for a class of generalized Yukawa potentials. (Russian. Russian summary) **2000f:31008**
Korey, Michael (*with* Tarkhanov, Nikolai) BMO functions on compact sets. (English summary) **2000d:35041**
Pujar, S. S. (*with* Waghe, B. S.) Integral formulae in Euclidean space and their applications. (English summary) **2000f:35041**
Tarkhanov, Nikolai *see* **Korey, Michael**, **2000d:35041**
Waghe, B. S. *see* **Pujar, S. S.**, **2000f:35041**

31B99 None of the above, but in this section

Hong, Yong[2] The Riesz potential on a sphere. (Chinese. English and Chinese summaries)
Samko, Stefan G. A new approach to the inversion of the Riesz potential operator. (English summary) **2000e:31002**
— Some remarks to the author's paper: "A new approach to the inversion of the Riesz potential operator" [Fract. Calc. Appl. Anal. 1 (1998), no. 3, 225–245; MR 2000e:31002]. (English summary) **2000e:31003**
Udrea, Corneliu Supermedian functions with respect to a non-linear resolvent. (English summary) **2000b:31008**
Watanabe, Hisako Boundedness of operators on Besov spaces on a fractal set. (*see* **2000m:31001**)

Items with secondary classifications in 31B99

Gustafsson, Björn (*with* Sakai, Makoto) On potential-theoretic skeletons of polyhedra. (English summary) **2000e:52012**
Rocha-Chávez, Reynaldo (*with* Shapiro, M. V.) On singular integrals of the time-harmonic Maxwell equations theory. (English summary) **2000c:78009**
Sakai, Makoto *see* **Gustafsson, Björn**, **2000e:52012**
Shapiro, M. V. *see* **Rocha-Chávez, Reynaldo**, **2000c:78009**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Kopylov, Anatoliĭ Pavlovich Properties of mappings that are close to harmonic. (Russian. Russian summary) **2000a:31009**
Wu, Jiong Qi Sequences approaching a boundary point and minimally fine thinness. (Chinese. English and Chinese summaries)
Zhang, Xun A refinement of the Fatou-Naim-Doob theorem. (English summary) **2000j:31008**

Items with secondary classifications in 31C05

Bañuelos, Rodrigo (*with* Burdzy, Krzysztof) On the "hot spots" conjecture of J. Rauch. **2000m:35085**
Burdzy, Krzysztof *see* **Bañuelos, Rodrigo**, **2000m:35085**
Capuzzo-Dolcetta, Italo (*with* Cutri, Alessandra) On the Liouville property for sub-Laplacians. **2000a:35065**
Chen, Zhen-Qing Multidimensional symmetric stable processes. (English summary) **2000f:60115**
Cutri, Alessandra *see* **Capuzzo-Dolcetta, Italo**, **2000a:35065**
Duheille, F. On the range of $\mathbf{R}^2$ or $\mathbf{R}^3$-valued harmonic morphisms. (English summary) **2000d:58024**
Kim, Seok Woo (*with* Lee, Yong Hah) Rough isometry, harmonic functions and harmonic maps on a complete Riemannian manifold. (English summary) **2000d:53061**
Lee, Yong Hah *see* **Kim, Seok Woo**, **2000d:53061**
Popescu, Emil[2] Characterizations of harmonic morphisms. (English summary) **2000d:31002**
Pop-Stojanović, Z. R. (*with* Rao, Murali; Sokołowski, J.) Reverse Markov inequality. **2000k:60151**
Rao, Murali *see* **Pop-Stojanović, Z. R. et al.**, **2000k:60151**
Sokołowski, J. *see* **Pop-Stojanović, Z. R. et al.**, **2000k:60151**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32U05]

Steinberg, Jacob E. Series expansion of biharmonic functions around a slit. (English summary)

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Bloom, Thomas (*with* Levenberg, Norman) Capacity convergence results and applications to a Bernstein-Markov inequality. (English summary) **2000c:32087**
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31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

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31C15 Potentials and capacities

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31C20 Discrete potential theory and numerical methods

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31C25 Dirichlet spaces

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Bogachev, Vladimir I. (*with* Röckner, Michael; Zhang, Tu Sheng) Existence and uniqueness of invariant measures: an approach via sectorial forms. (English summary) **2000k:31014**
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31C35 Martin boundary theory [see also 60J50]

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31C40 Fine potential theory

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Items with secondary classifications in 31C40

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31C45 Other generalizations (nonlinear potential theory, etc.)

Dalrymple, Kyallee (*with* Strichartz, Robert S.; Vinson, Jade P.) Fractal differential equations on the Sierpinski gasket. (English summary) **2000k:31016**
Ding, Shusen Weighted Caccioppoli-type estimates and weak reverse Hölder inequalities for A-harmonic tensors. (English summary) **2000a:31012**
Nyström, Kaj An estimate of a polynomial capacity. (English summary) **2000f:31016**
Strichartz, Robert S. *see* **Dalrymple, Kyallee et al., 2000k:31016**
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31C99 None of the above, but in this section

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Dong, Zhao *see* **Gong, Fu Zhou**
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Kurkova, I. A. The Poisson boundary for homogeneous random walks. (Russian)
Lang, Reinhard Ein inverses Randwertproblem und seine probabilistische Bedeutung. (German summary) [An inverse boundary value problem and its probabilistic meaning] **2000b:60180**
Mao, Yong Hua The logarithmic Sobolev inequality on Cantor sets. (Chinese. English and Chinese summaries) **2000k:28016**
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31D05 Axiomatic potential theory

Anandam, Victor *see* **Othman, S. I., 2000f:31017**
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Boboc, Nicu *see* **Beznea, Lucian, 2000b:31011**
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Grigor'yan, Alexander (*with* Hansen, Wolfhard) A Liouville property for Schrödinger operators. **2000a:58092**
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Wu, Jiong Qi The C-right continuity of generalized pre-capacities. (English and Chinese summaries) **2000h:31006**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see 46G20, 58B12.}

32–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 32–02

Kim, Kang-Tae On the Wu invariant metric. (Korean. Korean summary) **2000b:32025**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32–03

(Henkin, Gennadi Markovič) *see* **Leray, Jean, 2000c:01043**
(Kizuka, Takashi) *see* **Nishino, Toshio, (2000g:00094)**
Komatsu, Hikosaburo The early days of the theory of hyperfunctions and differential equations. (*see* **2000g:00087**)
Leray, Jean ★ Selected papers. Œuvres scientifiques. Vol. III. (French) **2000c:01043**
(Malliavin, Paul) *see* **Leray, Jean, 2000c:01043**
(Naitou, Michiko) *see* **Nishino, Toshio, (2000g:00094)**
Nishino, Toshio The mathematics of Professor Kiyoshi Oka—the birth of undetermined domain ideals. (Japanese) **2000c:01037**
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(Oka, Kiyoshi) *see* **Nishino, Toshio, 2000c:01037** *and* **(2000g:00094)**

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Biography:
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Collected Works:
Leray, Jean *see* **Leray, Jean, 2000c:01043**

32–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 32–04

Nakamura, Yayoi *see* **Tajima, Shinichi et al., 2000c:32034**
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32–06 Proceedings, conferences, collections, etc.

(Bruce, Bill) *see* **Singularity theory, 2000c:32002**
Chirka, E. M. (*with* Dolbeault, P.; Henkin, Gennadi Markovič; Vitushkin, A. G.) ★ Introduction to complex analysis. **2000k:32001**
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(Gauthier, Paul M.) *see* **Chirka, E. M. et al., 2000k:32001**
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(Komatsu, Gen) *see* **Analysis and geometry in several complex variables, 2000c:32001**
(Kuranishi, Masatake) *see* **Analysis and geometry in several complex variables, 2000c:32001**
(Mond, David) *see* **Singularity theory, 2000c:32002**
(Schneider, Michael Hellmut) *see* **Several complex variables, 2000k:32002**
(Siu, Yum-Tong) *see* **Several complex variables, 2000k:32002**
Vitushkin, A. G. *see* **Chirka, E. M. et al., 2000k:32001**
(Wall, Charles T. C.) *see* **Singularity theory, 2000c:32002**

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Berkeley, CA ★ Several complex variables. **2000k:32002**
Birthday:
Wall, Charles T. C. ★ Singularity theory. **2000c:32002**
Conference:
Singularities ★ Singularity theory. **2000c:32002**
Katata ★ Analysis and geometry in several complex variables. **2000c:32001**
Liverpool ★ Singularity theory. **2000c:32002**
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Singularity theory ★ Singularity theory. **2000c:32002**
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Several Complex Variables ★ Several complex variables. **2000k:32002**
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Analysis and Geometry in Several Complex Variables ★ Analysis and geometry in several complex variables. **2000c:32001**

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(Carocca, Angel) *see* **Complex geometry of groups, 2000g:00046**
(González-Aguilera, Víctor) *see* **Complex geometry of groups, 2000g:00046**
Lelong, Pierre ★ Positivity in complex spaces and plurisubharmonic functions/Positivité dans les espaces complexes et fonctions plurisousharmoniques. (French summary) **2000e:32043**
(Peternell, Thomas) *see* **Complex analysis and algebraic geometry, 2000m:00046**
(Ribenboim, Paulo) *see* **Lelong, Pierre, 2000e:32043**
(Rodríguez, Rubí E.) *see* **Complex geometry of groups, 2000g:00046**
(Schneider, Michael Hellmut) *see* **Complex analysis and algebraic geometry, 2000m:00046**
(Schreyer, Frank-Olaf) *see* **Complex analysis and algebraic geometry, 2000m:00046**
(Yuzhakov, A. P.) *see* **Investigations in complex analysis, 2000i:00022**

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Complex geometry of groups ★ Complex geometry of groups. **2000g:00046**
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Contemporary Mathematics ★ Complex geometry of groups. **2000g:00046**
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Olmué ★ Complex geometry of groups. **2000g:00046**
Symposium:
Hyperbolic Spaces and Related Topics ★ Hyperbolic spaces and related topics. (Japanese) **2000k:00036**

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Aĭzenberg, L. A. Multidimensional analogues of Bohr's theorem on power series. (English summary) **2000i:32001**
Fenton, P. C. Polynomial approximation of entire functions of two variables. (English summary) **2000m:32001**
Filimonova, L. A. A necessary differential property for the bound of absolute convergence of the triple Dirichlet series. (Russian. Russian summary) (*see* **2000g:00034**)
Hassan, G. F. *see* **Sayyed, K. A. M. et al., 2000j:32001**
Hu, Peng Yan *see* **Shi, Ji Huai, 2000f:32002**
Kostochko, N. A. On the representation of holomorphic functions of several complex variables by series of functions. (Russian) (*see* **2000i:00022**)
Lê Hai Khôi Coefficient multipliers for some classes of Dirichlet series in several complex variables. (English summary) **2000h:32001**
— A note on matrix transformations of holomorphic Dirichlet series. (English summary) **2000f:32001**
Metwally, M. S. *see* **Sayyed, K. A. M. et al., 2000d:32001** *and* **2000j:32001**
Orishchin, O. G. *see* **Skaskīv, O. B., 2000c:32003**
Sayyed, K. A. M. (*with* Metwally, M. S.; Hassan, G. F.) Effectiveness of equivalent sets of polynomials of two complex variables in polycylinders and in Faber regions. (English and Arabic summaries) **2000j:32001**
— (*with* Metwally, M. S.) Effectiveness of similar sets of polynomials of two complex variables in polycylinders and in Faber regions. (English summary) **2000d:32001**
Shi, Ji Huai (*with* Hu, Peng Yan) Random power series in several complex variables. (Chinese. Chinese summary) **2000f:32002**
Skaskīv, O. B. (*with* Orishchin, O. G.) A generalization of Borel's theorem for multiple Dirichlet series. (Ukrainian. English and Russian summaries) **2000c:32003**
Trutnev, V. M. Nonhomogeneous convolution equations in some spaces of entire functions of exponential type. (Russian) (*see* **2000g:00029**)

Items with secondary classifications in 32A05

Behnam, Hazem Shaba (*with* Srivastava, G. S.) Growth of analytic Dirichlet functions of two complex variables. (English summary) **2000h:32003**
Ligocka, Ewa On the Hartogs-type series for harmonic functions on Hartogs domains in $\mathbf{R}^n \times \mathbf{R}^m$, $m \geq 2$. (English summary) **2000m:31005**
Lutsishin, M. R. (*with* Skaskīv, O. B.) On the minimum modulus of a multiple Dirichlet series with monotone coefficients. (Ukrainian. English, Russian and Ukrainian summaries) **2000g:32007**
Skaskīv, O. B. *see* **Lutsishin, M. R., 2000g:32007**
Srivastava, G. S. *see* **Behnam, Hazem Shaba, 2000h:32003**

32A07 Special domains (Reinhardt, Hartogs, circular, tube)

Hijab, Omar The volume of the unit ball in $\mathbf{C}^n$.
Maresin, I. V. The Cartan-Grauert theorem for tuboids with a "curvilinear" edge. (Russian. Russian summary) **2000g:32001**

Items with secondary classifications in 32A07

Affane, Atallah Formules de représentation intégrale pour les domaines de Cartan. (English summary) [Integral representation formulas for Cartan domains] **2000m:32009**
Berndtsson, Bo Prekopa's theorem and Kiselman's minimum principle for plurisubharmonic functions. **2000a:32073**
Berteloot, François Holomorphic vector fields and proper holomorphic self-maps of Reinhardt domains. **2000g:32020**
Carleheď, Magnus (*with* Cegrell, Urban; Wikström, Frank) Jensen measures, hyperconvexity and boundary behaviour of the pluricomplex Green function. (English summary) **2000a:32075**
Cegrell, Urban *see* **Carleheď, Magnus et al., 2000a:32075**
Cho, Hong Rae (*with* Lee, Jinkee) Optimal weighted estimates for the Cauchy-Riemann equation on analytic polyhedra. (English summary) **2000e:32052**
D'Antoni, Claudio (*with* Zsidó, László) Methods of functional analysis in problems of analytic extension. (English summary) **2000d:32018**

Guan, Bing Xin *see* **Lin, Ping[2] et al., 2000c:32012** *and* **Yin, Wei Ping et al., 2000i:32041**
Hachaichi, Mohamed-Salah Formules de représentation intégrale et application à la résolution de l'équation de Cauchy-Riemann dans le disque unité généralisé de $M_n(\mathbf{C})$. (English, French and Arabic summaries) [Integral representation formulas and application to the solution of the Cauchy-Riemann equation in the generalized unit disk of $M_n(\mathbf{C})$] **2000d:32007**
Hamada, Hidetaka On proper holomorphic self-maps of generalized complex ellipsoids. (English summary) **2000i:32028**
Hundemer, Axel A characterization of products of balls by their isotropy groups. (English summary) **2000h:32028**
Ishimura, Ryuichi (*with* Okada, Jun-ichi; Okada, Yasunori) The continuation of holomorphic solutions for convolution equations in complex domains. (*see* **2000j:00026**)
— (*with* Okada, Yasunori) Examples of convolution equations in tube domains. (*see* **2000j:00026**)
Kosbergenov, S. On the Bergman kernel in a matrix ball. (Russian. English and Uzbek summaries) **2000d:32003**
— Integral representations of holomorphic functions in a matrix ball. (Russian. English and Uzbek summaries) **2000d:32004**
Kytmanov, A. M. (*with* Myslivets, Simona G.) On holomorphic continuation of functions in Siegel domains. (English summary) **2000i:32016**
Lee, Jinkee *see* **Cho, Hong Rae, 2000e:32052**
Lin, Ping[2] (*with* Guan, Bing Xin; Yin, Wei Ping) The gamma functions on nonselfdual cones of the first type. (Chinese. English and Chinese summaries) **2000c:32012**
— *see also* **Yin, Wei Ping et al., 2000i:32041**
Maresin, I. V. (*with* Sergeev, A. G.) A microlocal version of Cartan-Grauert's theorem. (English summary) **2000b:32020**
Merzlyakov, S. G. The Clarkson-Erdős theorem for several variables. (Russian. Russian summary) **2000k:41007**
Myslivets, Simona G. *see* **Kytmanov, A. M., 2000i:32016**
Neeb, Karl-Hermann Operator-valued positive definite kernels on tubes. (English summary) **2000c:22002**
Nguyên Viêt Anh The Lu Qi-Keng conjecture fails for strongly convex algebraic complete Reinhardt domains in $\mathbf{C}^n$ ($n \geq 3$). (English summary) **2000j:32005**
Okada, Jun-ichi *see* **Ishimura, Ryuichi et al., (2000j:00026)**
Okada, Yasunori *see* **Ishimura, Ryuichi et al., (2000j:00026)** *and* **(2000j:00026)**
Pflug, Peter (*with* Zwonek, Włodzimierz) Effective formulas for invariant functions—case of elementary Reinhardt domains. (English summary) **2000b:32026a**
— (*with* Zwonek, Włodzimierz) Erratum to: "Effective formulas for invariant functions—case of elementary Reinhardt domains". **2000b:32026b**
Pott, Sandra Standard models under polynomial positivity conditions. (English summary) **2000j:47019**
Ronkin, Lev Isaakovich Almost periodic generalized functions in tube domains. (Russian. English and Russian summaries) **2000m:46090**
Sergeev, A. G. *see* **Maresin, I. V., 2000b:32020**
Shimizu, Satoru[1] Automorphisms and equivalence of tube domains with bounded base. **2000j:32034**
Visintin, Barbara How to compute complex geodesics in Reinhardt domains. (English summary) **2000c:32041**
Wang, Wei[11] Quasimetrics and zero sets on the boundary of a complex ellipsoid. (Chinese. Chinese summary)
Webster, Sidney M. Extremal Kobayashi disks for ellipsoidal domains. (Japanese) **2000e:32014**
Wikström, Frank *see* **Carlehed, Magnus et al., 2000a:32075**
Yin, Wei Ping (*with* Lin, Ping[2]; Guan, Bing Xin) The gamma functions on nonselfdual cones of the third type. (Chinese. English and Chinese summaries) **2000i:32041**
— *see also* **Lin, Ping[2] et al., 2000c:32012**
Zsidó, László *see* **D'Antoni, Claudio, 2000d:32018**
Zwonek, Włodzimierz On Carathéodory completeness of pseudoconvex Reinhardt domains. (English summary) **2000e:32015**
— *see also* **Pflug, Peter, 2000b:32026a** *and* **2000b:32026b**

32A10 Holomorphic functions

Aĭzenberg, L. A. (*with* Aytuna, A.; Djakov, P.) An abstract approach to Bohr's phenomenon. (English summary) **2000m:32002**
Aytuna, A. *see* **Aĭzenberg, L. A. et al., 2000m:32002**
Begehr, Heinrich G. W. Riemann-Hilbert boundary value problems in $\mathbf{C}^n$. (English summary) **2000m:32003**
Bruna, Joaquim (*with* Grellier, Sandrine) Zero sets of $\mathscr{H}^p$ functions in convex domains of strict finite type in $\mathbf{C}^n$. (English summary) **2000b:32001**
Djakov, P. *see* **Aĭzenberg, L. A. et al., 2000m:32002**
Grellier, Sandrine *see* **Bruna, Joaquim, 2000b:32001**
Rudin, Walter A stability theorem. **2000h:32002**
Vidras, Alekos Local residues and discrete sets of uniqueness. (English summary) **2000j:32002**

Items with secondary classifications in 32A10

Chen, Bo Yong Extensions of L^2 holomorphic (p, q) forms. (Chinese. Chinese summary) **2000d:32017**
Ginzburg, Yu. P. Some analogues of Frostman's theorem and typical spectral properties of analytic multiparameter families of operators. (Russian. English summary) **2000a:47032**
Öktem, Ozan Extension of separately analytic functions and applications to range characterization of the exponential Radon transform. (English summary) **2000c:32037**

32A15 Entire functions

Bordulyak, M. T. The space of entire functions in $\mathbf{C}^n$ of bounded L-index. (Ukrainian. English and Russian summaries) **2000b:32002**
Dovbush, P. V. A polynomality criterion for entire functions of several complex variables. (Russian. Russian summary) **2000m:32004**
Mitreva, Mariya I. Growth of entire functions vanishing on an analytic set. (Russian. English summary)
Ronkin, Lev Isaakovich On entire functions of n variables being quasipolynomials in one of the variables. (English, Russian and Ukrainian summaries) **2000a:32001**
Trutnev, V. M. Denseness of polynomial solutions of homogeneous convolution equations in spaces of entire functions of exponential type. (Russian) (*see* **2000g:00029**)
Yulmukhametov, R. S. On entire functions with given asymptotic behavior. (Russian. Russian summary) **2000a:32002**

Items with secondary classifications in 32A15

Abanin, A. V. (*with* Shabarshina, I. S.) Generating and differential ideals, and zero sets of their generators. (Russian) **2000i:32002**
Fujita, Keiko (*with* Morimoto, Mitsuo) Integral representation for eigenfunctions of the Laplacian. (English summary) **2000k:32004**
Gross, Fred (*with* Osgood, Charles F.) A generalization of the Nielson-Holder [Nielsen-Hölder] theorem about $\Gamma(z)$. **2000c:32024**
Hörmander, Lars (*with* Sigurdsson, Ragnar) Growth properties of plurisubharmonic functions related to Fourier-Laplace transforms. (English summary) **2000i:32055**
Li, Bao Qin On the Bézout problem and area of interpolating varieties in $\mathbf{C}^n$. II. (English summary) **2000a:32033**
Morimoto, Mitsuo *see* **Fujita, Keiko, 2000k:32004**
Osgood, Charles F. *see* **Gross, Fred, 2000c:32024**
Shabarshina, I. S. *see* **Abanin, A. V., 2000i:32002**
Sigurdsson, Ragnar *see* **Hörmander, Lars, 2000i:32055**
Vũ Kim Tuấn Paley-Wiener-type theorems. (English summary) **2000j:42022**
Waldschmidt, Michel Integer valued entire functions on Cartesian products. (English summary) **2000c:11116**

32A17 Special families of functions

Abe, Makoto[2] (*with* Furushima, Mikio; Tsuji, Miki) Equicontinuity domain and disk property. (English summary) **2000b:32003**
Furushima, Mikio *see* **Abe, Makoto[2] et al., 2000b:32003**
Godula, Janusz (*with* Starkov, Viktor V.) On regularity theorems for linearly invariant families of analytic functions in the unit polydisk. II. (English summary) **2000m:32006**
— (*with* Starkov, Viktor V.) On regularity theorems for linearly invariant families of analytic functions in the unit polydisk. **2000m:32005**
— (*with* Starkov, Viktor V.) On a regularity theorem for linearly invariant families of functions in the polydisk. (Russian) **2000c:32004**
León-Saavedra, Fernando Universal functions on the unit ball and the polydisk. (English summary) **2000c:32005**
Starkov, Viktor V. *see* **Godula, Janusz, 2000c:32004;2000m:32005** *and* **2000m:32006**
Tsuji, Miki *see* **Abe, Makoto[2] et al., 2000b:32003**

32A19 Normal families of functions, mappings

Zhou, Zehua Quasimeromorphic mappings of several complex variables and normality criteria. (English summary) **2000c:32006**

32A20 Meromorphic functions

Khabibullin, B. N. Variant of a problem on the representation of a meromorphic function as a quotient of entire functions. (English summary) **2000a:32003**

Items with secondary classifications in 32A20

Colţoiu, Mihnea On hulls of meromorphy and a class of Stein manifolds. (English summary) **2000m:32017**
Hamada, Hidetaka Univalent holomorphic mappings on a complex manifold with a C^1 exhaustion function. (English summary) **2000f:32015**
Zhou, Zehua Quasimeromorphic mappings of several complex variables and normality criteria. (English summary) **2000c:32006**

32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Abanin, A. V. (*with* Shabarshina, I. S.) Generating and differential ideals, and zero sets of their generators. (Russian) **2000i:32002**
Behnam, Hazem Shaba (*with* Srivastava, G. S.) Growth of analytic Dirichlet functions of two complex variables. (English summary) **2000h:32003**
Chakraborty, B. C. (*with* Ray, Brajakishore) Growth properties of holomorphic functions in several complex variables. (English summary) **2000g:32002**
Dubtsov, E. S. Nevanlinna functions as quotients. (English summary) **2000m:32007**
Einstein-Matthews, Stanley M. (*with* Lutterodt, Clement H.) Growth of transcendental entire functions on algebraic varieties. (English summary) **2000c:32007**
Henne, Benedikt ★ Nevanlinnaklassen in nichtglatten streng pseudokonvexen Bereichen. (German) [Nevanlinna classes in nonsmooth strictly pseudoconvex domains] **2000a:32004**
Khabibullin, B. N. The Paley problem for plurisubharmonic functions of finite lower order. (Russian. Russian summary) **2000h:32004**
Lutterodt, Clement H. *see* **Einstein-Matthews, Stanley M., 2000c:32007**
Ray, Brajakishore *see* **Chakraborty, B. C., 2000g:32002**
Shabarshina, I. S. *see* **Abanin, A. V., 2000i:32002**
Srivastava, G. S. *see* **Behnam, Hazem Shaba, 2000h:32003**

Items with secondary classifications in 32A22

Ghika, G. The Berry phase and the diastasis function. (English summary) **2000d:81048**
Jakóbczak, Piotr Holomorphic functions of fast growth on submanifolds of the domain. (English summary) **2000h:32006**
Khabibullin, B. N. Variant of a problem on the representation of a meromorphic function as a quotient of entire functions. (English summary) **2000a:32003**

Li, Bao Qin On the Bézout problem and area of interpolating varieties in $\mathbf{C}^n$. II. (English summary) **2000a:32033**
Mitreva, Mariya I. Growth of entire functions vanishing on an analytic set. (Russian. English summary)

32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)

Ahn, Heungju (*with* Cho, Sanghyun) On the mapping properties of the Bergman projection on pseudoconvex domains with one degenerate eigenvalue. (English summary) **2000h:32005**
Andersson, Mats E. L. (*with* Boo, Jörgen; Ortega-Cerdà, Joaquim) Canonical homotopy operators for the $\overline{\partial}$ complex in strictly pseudoconvex domains. (English and French summaries) **2000a:32005**
Boo, Jörgen *see* **Andersson, Mats E. L. et al., 2000a:32005**
Catlin, David W. The Bergman kernel and a theorem of Tian. **2000e:32001**
Chen, Bo Yong (*with* Zhang, Jinhao) A remark on the Bergman stability. (English summary) **2000m:32008**
Cho, Sanghyun *see* **Ahn, Heungju, 2000h:32005**
Diederich, Klas (*with* Herbort, Gregor) On discontinuity of the Bergman kernel function. (English summary) **2000k:32003**
Francsics, Gábor (*with* Hanges, Nicholas) Trèves curves and the Szegő kernel. (English summary) **2000b:32004**
Fujita, Keiko Reproducing kernels related to the complex sphere. (Japanese) (*see* **2000c:00040**)
Hanges, Nicholas *see* **Francsics, Gábor, 2000b:32004**
Haslinger, Friedrich The Bergman kernel functions of certain unbounded domains. (English summary) **2000a:32006**
Herbort, Gregor *see* **Diederich, Klas, 2000k:32003**
Hirachi, Kengo (*with* Komatsu, Gen) Local Sobolev-Bergman kernels of strictly pseudoconvex domains. **2000j:32003**
Kamimoto, Joe On the singularities of non-analytic Szegő kernels. (English summary) **2000a:32007**
— The Bergman kernel on weakly pseudoconvex tube domains in $\mathbf{C}^2$. **2000c:32008**
Karapetyan, A. O. Weighted integral representations of holomorphic functions in matrix Siegel domains. (Russian. English and Russian summaries) **2000d:32002**
Komatsu, Gen Invariant theory of the Bergman kernel in dimension two. (English summary) **2000j:32004**
— *see also* **Hirachi, Kengo, 2000j:32003**
Kosbergenov, S. The Carleman formula for the derivatives of holomorphic functions in $\mathbf{C}^n$. (Russian) (*see* **2000i:00022**)
— On the Bergman kernel in a matrix ball. (Russian. English and Uzbek summaries) **2000d:32003**
— Integral representations of holomorphic functions in a matrix ball. (Russian. English and Uzbek summaries) **2000d:32004**
Krantz, Steven G. (*with* Peloso, Marco M.) Sobolev spaces and projections of holomorphic functions and mappings. **2000e:32002**
Kytmanov, A. M. Carleman formulas for the ball and polydisk. (Russian) (*see* **2000i:00022**)
Leĭnartas, E. K. Integral representation of the solution of the Cauchy problem for a linear differential equation with constant coefficients in $\mathbf{C}^n$. (Russian) (*see* **2000g:00029**)
Mengotti, G. (*with* Youssfi, E. H.) The weighted Bergman projection and related theory on the minimal ball. (English summary) **2000i:32003**
Nguyên Viêt Anh The Lu Qi-Keng conjecture fails for strongly convex algebraic complete Reinhardt domains in $\mathbf{C}^n$ ($n \geq 3$). (English summary) **2000j:32005**
Nikitina, T. N. An analogue of the Carleman formula in the future tube. (Russian) (*see* **2000i:00022**)
Ohsawa, Takeo Complete circular domains and the Bergman metric. (Japanese) (*see* **2000c:00040**)
Ortega-Cerdà, Joaquim *see* **Andersson, Mats E. L. et al., 2000a:32005**
Peloso, Marco M. *see* **Krantz, Steven G., 2000e:32002**
Shaimkulov, B. A. A criterion for the solvability of an ill-posed Cauchy problem for holomorphic functions. (Russian) (*see* **2000i:00022**)
Tiao, Chieh-Hsien The Bergman kernel on monomial polyhedra. **2000a:32008**
Wang, Wei[11] Quasimetrics and zero sets on the boundary of a complex ellipsoid. (Chinese. Chinese summary)
Yin, Wei Ping Bergman kernel functions of four classes of super Cartan domains. (Chinese. Chinese summary)
Youssfi, E. H. *see* **Mengotti, G., 2000i:32003**
Zhang, Jinhao *see* **Chen, Bo Yong, 2000m:32008**

Items with secondary classifications in 32A25

Amar, Eric (*with* Menini, Chantal) Residue currents and $H^\infty(\mathbf{B})$ interpolation. (English summary) **2000d:32021**
Bekollé, David (*with* Bonami, Aline) Hausdorff-Young inequalities for functions in Bergman spaces on tube domains. (English summary) **2000c:32020**
Bonami, Aline (*with* Peloso, Marco M.; Symesak, Frédéric) Powers of the Szegő kernel and Hankel operators on Hardy spaces. (English summary) **2000k:47029**
— *see also* **Bekollé, David, 2000c:32020**
Chen, Bo Yong (*with* Zhang, Jinhao) Bergman kernel and metric on non-smooth pseudoconvex domains. (English summary) **2000h:32014**
Diederich, Klas (*with* Herbort, Gregor) An alternative proof of an extension theorem of T. Ohsawa. **2000j:32019**
Engliš, Miroslav Compact Toeplitz operators via the Berezin transform on bounded symmetric domains. (English summary) **2000h:47050a**
Fefferman, Charles L. The Bergman kernel in quantum mechanics. **2000g:81214**
Guan, Bing Xin *see* **Yin, Wei Ping et al., 2000i:32041**
Herbort, Gregor *see* **Diederich, Klas, 2000j:32019**
Hirachi, Kengo (*with* Komatsu, Gen; Nakazawa, Noriyuki) CR invariants of weight five in the Bergman kernel. (English summary) **2000i:32062**
Holland, Finbarr (*with* Rochberg, Richard) Bergman kernels and Hankel forms on generalized Fock spaces. (English summary) **2000b:46050**
Jevtić, Miroljub Holomorphic Besov spaces B^p, $0 < p < 1$, on bounded symmetric domains. (English summary) **2000d:32009**
Komatsu, Gen *see* **Hirachi, Kengo et al., 2000i:32062**
Lin, Ping[2] Gamma functions on nonselfdual cones of type II. (Chinese. English and Chinese summaries) **2000g:32026**
— *see also* **Yin, Wei Ping et al., 2000i:32041**
Menini, Chantal *see* **Amar, Eric, 2000d:32021**
Nakazawa, Noriyuki *see* **Hirachi, Kengo et al., 2000i:32062**
Peloso, Marco M. *see* **Bonami, Aline et al., 2000k:47029**
Rochberg, Richard *see* **Holland, Finbarr, 2000b:46050**
Symesak, Frédéric *see* **Bonami, Aline et al., 2000k:47029**
Thilliez, Vincent Hilbert-valued forms and barriers on weakly pseudoconvex domains. (English summary) **2000a:32084**
Yin, Wei Ping (*with* Lin, Ping[2]; Guan, Bing Xin) The gamma functions on nonselfdual cones of the third type. (Chinese. English and Chinese summaries) **2000i:32041**
Zhang, Jinhao *see* **Chen, Bo Yong, 2000h:32014**

32A26 Integral representations, constructed kernels (e.g. Cauchy, Fantappiè-type kernels)

Affane, Atallah Formules de représentation intégrale pour les domaines de Cartan. (English summary) [Integral representation formulas for Cartan domains] **2000m:32009**
Begehr, Heinrich G. W. (*with* Dzhuraev, Abdukhamid Dzhuraevich) Schwarz problem for Cauchy-Riemann systems in several complex variables. **2000d:32005**
Chen, Shujin Hadamard principal value of the singular integral of higher order in $\mathbf{C}^n$. (English summary) **2000b:32005**
Cho, Hong Rae Some Lipschitz regularity for integral kernels on subvarieties of pseudoconvex domains in $\mathbf{C}^2$. (English summary) **2000c:32009**
Chu, Ren Hua *see* **Qiu, Chun Hui, 2000j:32007**
Dzhuraev, Abdukhamid Dzhuraevich *see* **Begehr, Heinrich G. W., 2000d:32005**
Fujita, Keiko (*with* Morimoto, Mitsuo) Integral representation for eigenfunctions of the Laplacian. (English summary) **2000k:32004**
Guan, Bing Xin *see* **Lin, Ping[2] et al., 2000c:32012**
Hachaichi, Mohamed-Salah La géométrie du disque unité généralisé de $M_n(\mathbf{C})$. (English, French and Arabic summaries) [Geometry of the generalized unit disc of $M_n(\mathbf{C})$] **2000d:32006**
— Formules de représentation intégrale et application à la résolution de l'équation de Cauchy-Riemann dans le disque unité généralisé de $M_n(\mathbf{C})$. (English, French and Arabic summaries) [Integral representation formulas and application to the solution of the Cauchy-Riemann equation in the generalized unit disk of $M_n(\mathbf{C})$] **2000d:32007**
Hatziafratis, T. Note on the Fourier-Laplace transform of $\overline{\partial}$-cohomology classes. (English summary) **2000c:32010**
Huang, Baosheng (*with* Lin, Liang Yu; Wang, Peiling) Leray formulas with finite discrete kernels on circular building domains. (English and Chinese summaries) **2000a:32009**
Huang, Hong Yi A jump formula for differential forms on complex manifolds under the Berndtsson transform. (Chinese. English and Chinese summaries) **2000k:32005**
Jiang, Yong (*with* Qiu, Chun Hui) Boundary properties of the extended Bochner-Martinelli integral. (Chinese. English and Chinese summaries) **2000f:32003**
Kosbergenov, S. On the Carleman formula for a matrix ball. (Russian) **2000c:32011**
Kytmanov, A. M. (*with* Myslivets, Simona G.) On functions that are representable by the Cauchy-Fantappiè integral of a certain form. (Russian) **2000j:32006**
— ★ Some applications of the Bochner-Martinelli integral. **2000k:32006**
Lin, Liang Yu (*with* Qiu, Chun Hui; Ruan, Qi Hua) Boundary behavior of integrals of Cauchy type on a building domain of complex biballs. (Chinese. English and Chinese summaries) **2000a:32010**
— *see also* **Huang, Baosheng et al., 2000a:32009**; **Qiu, Chun Hui, 2000c:32015** *and* **Ruan, Qi Hua, 2000j:32008**
Lin, Ping[2] (*with* Guan, Bing Xin; Yin, Wei Ping) The gamma functions on nonselfdual cones of the first type. (Chinese. English and Chinese summaries) **2000c:32012**
Lü, Yong Jing (*with* Ma, Zhong Tai) L^2-norm estimates of solutions for the inhomogeneous Cauchy-Riemann equation. (English summary) **2000c:32013**
Ma, Zhong Tai Boundary properties of Bochner-Martinelli type integral in domains with smooth boundary. (English summary) **2000c:32014**
— *see also* **Lü, Yong Jing, 2000c:32013**
Morimoto, Mitsuo A generalization of the Cauchy-Hua integral formula on the Lie ball. **2000d:32008**
— *see also* **Fujita, Keiko, 2000k:32004**
Myslivets, Simona G. *see* **Kytmanov, A. M., 2000j:32006**
Petrosyan, A. I. Weighted integral representations of functions in the polydisk and in the space $\mathbf{C}^n$. (Russian. English and Russian summaries) **2000b:32006**
Qiu, Chun Hui The Koppelman-Leray-Norguet formula with weight factors on complex manifolds and its applications. (Chinese. English and Chinese summaries) **2000b:32007**
— (*with* Lin, Liang Yu) The Koppelman-Leray formula with weight factors for a domain with nonsmooth boundary in a Stein manifold. (Chinese. English and Chinese summaries) **2000c:32015**
— (*with* Chu, Ren Hua) The Koppelman-Leray-Norguet formula for a strictly pseudoconvex polyhedron with nonsmooth boundaries. (Chinese. English and Chinese summaries) **2000j:32007**
— Formula with weight factors for a strictly pseudoconvex polyhedron with non-smooth boundaries. (Chinese. English and Chinese summaries) **2000m:32010**
— *see also* **Lin, Liang Yu et al., 2000a:32010** *and* **Jiang, Yong, 2000f:32003**
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Qiu, Chun Hui The boundary behaviour on a convex domain in a Stein manifold. (Chinese. English and Chinese summaries) **2000m:32019**
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32A27 Local theory of residues [see also 32C30]

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Materov, E. N. On the multiplicity of a holomorphic mapping and on a formula for the logarithmic residue for overdetermined systems. (Russian) **2000j:32010**
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Nakamura, Yayoi *see* **Tajima, Shinichi et al., 2000c:32034**
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32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

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32A35 H^p-spaces, Nevanlinna spaces [see also 32M15, 42B30, 43A85, 46J15]

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Arsenović, Miloš Embedding derivatives of $\mathscr{M}$-harmonic functions into L^p-spaces. (English summary) **2000i:32004**
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Shirokov, N. A. On an analogue of the Stolz angle for the unit ball in $\mathbf{C}^n$. (Russian. English and Russian summaries) **2000c:32019**
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Alpay, Daniel (*with* Bolotnikov, Vladimir; Rodman, Leiba) One-sided tangential interpolation for operator-valued Hardy functions on polydisks. (English summary) **2000f:47023**
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Bertram, Wolfgang (*with* Hilgert, Joachim) Hardy spaces and analytic continuation of Bergman spaces. (English and French summaries) **2000a:32012**
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Bruna, Joaquim (*with* Grellier, Sandrine) Zero sets of $\mathscr{H}^p$ functions in convex domains of strict finite type in $\mathbf{C}^n$. (English summary) **2000b:32001**
Chen, Ke Xi *see* **Ding, Xuan Hao et al., 2000c:47048**
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Dyakonov, Konstantin M. Kernels of Toeplitz operators via Bourgain's factorization theorem. (English summary) **2000m:47036**
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Tang, Sheng Qiang *see* **Ding, Xuan Hao et al., 2000c:47048**
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32A36 Bergman spaces

Bekollé, David (*with* Bonami, Aline) Hausdorff-Young inequalities for functions in Bergman spaces on tube domains. (English summary) **2000c:32020**
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Choe, Boo Rim (*with* Lee, Young Joo) Images of Hankel operators on the polydisk. (English summary) **2000f:47051**
Diederich, Klas (*with* Herbort, Gregor) On discontinuity of the Bergman kernel function. (English summary) **2000k:32003**
Engliš, Miroslav A mean value theorem on bounded symmetric domains. (English summary) **2000d:32040**
Herbort, Gregor *see* **Diederich, Klas, 2000k:32003**
Karapetyan, A. O. Weighted integral representations of holomorphic functions in matrix Siegel domains. (Russian. English and Russian summaries) **2000d:32002**
Lee, Young Joo *see* **Choe, Boo Rim, 2000f:47051**
Mercer, Peter R. Compact composition operators between weighted Bergman spaces on convex domains in $\mathbf{C}^n$. (English summary) **2000h:47047**
Nomura, Takaaki Berezin transforms and group representations. (English summary) **2000c:22003**
Yan, Jing Xian (*with* Yu, Da Hai) Compactness of Toeplitz operators on a weighted Bergman space and their Berezin transforms. (Chinese. English and Chinese summaries) **2000i:47054**
Yu, Da Hai *see* **Yan, Jing Xian, 2000i:47054**
Zhang, Jinhao *see* **Chen, Bo Yong, 2000h:32014**

32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA)) [see also 46Exx]

Dai, Zhen Yu *see* **Wei, Guo Qiang, 2000j:32012**
Faraut, J. (*with* Thomas, Erik G. F.) Invariant Hilbert spaces of holomorphic functions. (English summary) **2000i:32005**
Hu, Peng Yan (*with* Shi, Ji Huai; Zhang, Wen Jun[1]) The Möbius boundedness of the space Q_p. (English summary) **2000g:32004**
Jakóbczak, Piotr Holomorphic functions of fast growth on submanifolds of the domain. (English summary) **2000h:32006**
Jevtić, Miroljub Holomorphic Besov spaces B^p, $0 < p < 1$, on bounded symmetric domains. (English summary) **2000d:32009**
— (*with* Pavlović, Miroslav) Littlewood-Paley type inequalities for $\mathscr{M}$-harmonic functions. (English summary) **2000c:32021**
— (*with* Pavlović, Miroslav) On subharmonic behaviour of functions and their tangential derivatives on the unit ball in $\mathbf{C}^n$. (English summary) **2000c:32022**
Kamimoto, Joe Remarks on Bloch functions on weakly pseudoconvex domains. **2000e:32004**
Luecking, Daniel H. The dual of Bergman metric VMO. (English summary) **2000k:32008**
Pavlović, Miroslav *see* **Jevtić, Miroljub, 2000c:32021** *and* **2000c:32022**
Serbina, V. V. Generators in spaces defined by different weights. (Russian. English and Russian summaries) **2000i:32006**
Shi, Ji Huai *see* **Hu, Peng Yan et al., 2000g:32004**
Subbotin, A. V. Functional properties of Privalov spaces of holomorphic functions of several variables. (Russian. Russian summary) **2000g:32005**
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Wulan, Hasi A Carleson inequality for BMOA functions with their derivatives on the unit ball. (English summary) **2000i:32007**
Yang, Wei Sheng Vanishing Carleson type measure characterization of $Q_{p,0}$. (French summary) **2000i:32008**
— *see also* **Zhuo, Wen Xin, 2000d:32010**
Zhang, Wen Jun[1] *see* **Hu, Peng Yan et al., 2000g:32004**
Zhuo, Wen Xin (*with* Yang, Wei Sheng) Integral criteria for Bloch type functions involving radial derivatives. (Chinese. English and Chinese summaries) **2000d:32010**

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Bernal-González, Luis Hypercyclic sequences of differential and antidifferential operators. (English summary) **2000b:47081**
Brudnyi, Alexander Local inequalities for plurisubharmonic functions. (English summary) **2000d:32049**
Carlsson, Hasse *see* **Andersson, Mats E. L., 2000k:32007**
Dubtsov, E. S. Regular unitarily invariant spaces on the complex sphere. (Russian. English and Russian summaries) **2000h:46027**
— Nevanlinna functions as quotients. (English summary) **2000m:32007**
Fricain, Emmanuel Uniqueness theorems for analytic vector-valued functions. (English and Russian summaries) **2000d:46048**
Lee, Young Joo Essentially commuting Toeplitz operators on the weighted Bergman spaces. (English summary) **2000b:47074**
Mishnyakova, E. N. (*with* Morzhakov, V. V.) Necessary and sufficient conditions for the epimorphy of an infinite-order differential operator in a space of analytic functions. (Russian. English and Russian summaries) **2000m:46056**
Morzhakov, V. V. *see* **Mishnyakova, E. N., 2000m:46056**
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Shamoyan, F. A. (*with* Yaroslavtseva, O. V.) Continuous projections, duality and a diagonal mapping in weighted spaces of holomorphic functions with a mixed norm. (Russian. English and Russian summaries) **2000m:46060**
Yang, Wei Sheng (*with* Zhuo, Wen Xin) Characterization of little α-Bloch spaces on the unit ball of $\mathbf{C}^n$. (English summary) **2000b:46049**
Yaroslavtseva, O. V. *see* **Shamoyan, F. A., 2000m:46060**
Zhuo, Wen Xin *see* **Yang, Wei Sheng, 2000b:46049**

32A38 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

Krasichkov-Ternovskiĭ, I. F. Spectral synthesis and local description for several variables. (Russian. Russian summary) **2000g:32006**
Thilliez, Vincent Division et extension dans des classes de Carleman de fonctions holomorphes. (English summary) [Division and extension in Carleman classes of holomorphic functions] **2000b:32011**

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Backlund, Ulf (*with* Fällström, Anders) Counterexamples to the Gleason problem. (English summary) **2000c:46097**
Belhachemi, Rachid Local versus global peak sets in real-analytic convex boundaries. (English summary) **2000m:32020**
Chacrone, Seddik (*with* Gauthier, Paul M.; Nersesyan, Ashot A.) Carleman approximation on products of Riemann surfaces. (English summary) **2000c:32038**
Contreras, Manuel D. (*with* Díaz Madrigal, Santiago) Some Banach space properties of the duals of the disk algebra and H^∞. **2000b:46088**
Díaz Madrigal, Santiago *see* **Contreras, Manuel D., 2000b:46088**
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Fällström, Anders *see* **Backlund, Ulf, 2000c:46097**
Faraut, J. (*with* Thomas, Erik G. F.) Invariant Hilbert spaces of holomorphic functions. (English summary) **2000i:32005**
Gauthier, Paul M. *see* **Chacrone, Seddik et al., 2000c:32038**
Guo, Kun Yu Characteristic spaces and rigidity for analytic Hilbert modules. (English summary) **2000b:46090**
Nersesyan, Ashot A. *see* **Chacrone, Seddik et al., 2000c:32038**
Oh'uchi, Shigeki Disjoint unions of complex affine subspaces interpolating for A_p. (English summary) **2000f:32008**
Saccone, Scott F. Tight uniform algebras. (English summary) **2000a:46085**
Thomas, Erik G. F. *see* **Faraut, J., 2000i:32005**

32A40 Boundary behavior of holomorphic functions

Anderson, John T. (*with* Cima, Joseph A.) A uniqueness theorem for normal functions of several complex variables. (English summary) **2000b:32012**
Chen, Shujin The integral formula on complex submanifold and application. (English summary) **2000c:32023**
Cima, Joseph A. *see* **Anderson, John T., 2000b:32012**
Hahn, K. T. (*with* Stoll, Manfred; Youssfi, E. H.) Invariant potentials and tangential boundary behavior of $\mathscr{M}$-subharmonic functions in the unit ball. (English summary) **2000d:32011**
Stoll, Manfred *see* **Hahn, K. T. et al., 2000d:32011**
Youssfi, E. H. *see* **Hahn, K. T. et al., 2000d:32011**

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Cascante, Carme (*with* Ortega, Joaquin M.) Convergence in nonisotropic regions of harmonic functions in $\mathbf{B}^2$. (English summary) **2000c:42017**
Ortega, Joaquin M. *see* **Cascante, Carme, 2000c:42017**
Perotti, A. Dirichlet problem for pluriharmonic functions of several complex variables. (English summary) **2000a:32074**
Rzepecki, Leszek Boundary behavior of non-isotropic potentials in the unit ball of $\mathbf{C}^n$. (English summary) **2000i:31002**
Tutschke, Wolfgang *see* **Balk, M. B. et al., 2000c:30087**
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Yin, Cheng Yuan A note on property of Cauchy integral on classical domains. (English summary) **2000e:32005**

32A45 Hyperfunctions [see also 46F15]

Ishimura, Ryuichi (*with* Okada, Jun-ichi; Okada, Yasunori) The continuation of holomorphic solutions for convolution equations in complex domains. (*see* **2000j:00026**)
— (*with* Okada, Yasunori) Examples of convolution equations in tube domains. (*see* **2000j:00026**)
Ito, Yoshifumi Theory of Fourier microfunctions of several types. III. (English summary) **2000b:32013**
Lutsishin, M. R. (*with* Skaskīv, O. B.) On the minimum modulus of a multiple Dirichlet series with monotone coefficients. (Ukrainian. English, Russian and Ukrainian summaries) **2000g:32007**
Morimoto, Mitsuo ★ Analytic functionals on the sphere. (English summary) **2000h:32007**
Okada, Jun-ichi *see* **Ishimura, Ryuichi et al., (2000j:00026)**
Okada, Yasunori *see* **Ishimura, Ryuichi et al., (2000j:00026)** *and* **(2000j:00026)**
Skaskīv, O. B. *see* **Lutsishin, M. R., 2000g:32007**

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Ishi, Hideyuki Orbit decomposition for closures of general homogeneous cones and the positivity of Riesz hyperfunctions. (Japanese) (*see* **2000b:53002**)

— The structure of Riesz hyperfunctions and Gindikin-Wallach sets on homogeneous cones. (Japanese) (*see* **2000g:00071**)

Ito, Yoshifumi Sato hyperfunctions valued in a locally convex space. (English summary) **2000m:46087**

Lê Hai Khôi Analytic functionals on weakly lineally convex domains and representation of functions by rational fractions. (English summary) **2000e:46050**

Liess, Otto Fourier transforms and duality in hyperfunctions. (*see* **2000k:00028**)

32A50 Harmonic analysis of several complex variables [See mainly 43–XX]

Petin, D. V. Epimorphy of a convolution operator in the space of analytic functions. (Russian. English and Russian summaries) **2000i:32009**

Shishkin, A. B. Spectral synthesis for systems of differential operators with constant coefficients. The duality theorem. (Russian. Russian summary) **2000i:32010**

Yin, Cheng Yuan A note on property of Cauchy integral on classical domains. (English summary) **2000e:32005**

Items with secondary classifications in 32A50

Penney, Richard The Paley-Wiener theorem for the Hua system. (English summary) **2000d:43001**

32A55 Singular integrals

Qian, Tao (*with* Zhong, Tong De) Transformation formula of higher order integrals. (English summary) **2000m:32012**

Zhong, Tong De *see* **Qian, Tao**, **2000m:32012**

32A60 Zero sets of holomorphic functions

Gross, Fred (*with* Osgood, Charles F.) A generalization of the Nielson-Holder [Nielsen-Hölder] theorem about $\Gamma(z)$. **2000c:32024**

Osgood, Charles F. *see* **Gross, Fred**, **2000c:32024**

32A65 Banach algebra techniques [See mainly 46Jxx]

Items with secondary classifications in 32A65

Abul-Ez, M. A. On the effectiveness of basic sets of two complex variables in Fréchet spaces. (English summary) **2000i:46019**

32A70 Functional analysis techniques [See mainly 46Exx]

Items with secondary classifications in 32A70

Fujita, Keiko (*with* Morimoto, Mitsuo) Integral representation for eigenfunctions of the Laplacian. (English summary) **2000k:32004**

Morimoto, Mitsuo *see* **Fujita, Keiko**, **2000k:32004**

32A99 None of the above, but in this section

Sizykh, O. N. On a uniqueness theorem. (Russian) (*see* **2000i:00022**)

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Driver, Bruce K. (*with* Gross, Leonard) Hilbert spaces of holomorphic functions on complex Lie groups. (English summary) **2000h:46029**

Gorbuzov, V. N. (*with* Tyshchenko, V. Yu.) **R**-holomorphic solutions of a total differential equation. (Russian. Russian summary) **2000g:34149**

Gross, Leonard *see* **Driver, Bruce K.**, **2000h:46029**

Malgrange, Bernard On sectorial solutions of ordinary differential equations. **2000a:34173**

Püngel, J. Transmutations in differential rings. (English summary) **2000f:35008**

Sommen, Franciscus Clifford analysis in two and several vector variables. (English summary) **2000k:30080**

Tyshchenko, V. Yu. *see* **Gorbuzov, V. N.**, **2000g:34149**

Zagorodnyuk, A. V. Existence of a linear manifold in the kernel of a complex polynomial functional on a finite-dimensional linear space. (Ukrainian. English and Russian summaries) **2000a:32041**

32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebras and generalizations, preparation theorems

Saparov, Z. B. *see* **Yuzhakov, A. P.**, (**2000i:00022**)

Yuzhakov, A. P. (*with* Saparov, Z. B.) Identification of the factors of a Weierstrass pseudopolynomial by the Newton diagram. (Russian) (*see* **2000i:00022**)

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Chollet, Anne-Marie *see* **Chaumat, Jacques**, **2000k:26033**

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Ullrich, Peter Division mit Rest in Banach-Algebren konvergenter Potenzreihen. (English summary) [Division with remainder in Banach algebras of convergent power series] **2000d:46066**

32B10 Germs of analytic sets, local parametrization

Chądzyński, Jacek (*with* Krasiński, Tadeusz) On the Łojasiewicz exponent for analytic curves. (English summary) **2000c:32025**

Françoise, Jean-Pierre (*with* Yomdin, Y.) Projection of analytic sets and Bernstein inequalities. **2000c:32026**

Krasiński, Tadeusz *see* **Chądzyński, Jacek**, **2000c:32025**

Nakai, Isao The classification of curvilinear angles in the complex plane and the groups of $\pm$ holomorphic diffeomorphisms. (English and French summaries) **2000b:32014**

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Kurdyka, Krzysztof Injective endomorphisms of real algebraic sets are surjective. **2000b:14077**

Landsberg, Joseph M. Is a linear space contained in a submanifold? On the number of derivatives needed to tell. (English summary) **2000k:14035**

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Saia, Marcelo José The integral closure of ideals and Whitney equisingularity of germs of hypersurfaces. (English and Portuguese summaries) **2000b:32048**

32B20 Semi-analytic sets and subanalytic sets [see also 14P15]

Bierstone, Edward (*with* Milman, Pierre D.) Geometric and differential properties of subanalytic sets. **2000c:32027**

Comte, George Formule de Cauchy-Crofton pour la densité des ensembles sous-analytiques. (English and French summaries) [Cauchy-Crofton formula for the density of subanalytic sets] **2000b:32015**

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Krasiński, Tadeusz *see* **Cygan, Ewa et al.**, **2000e:32006**

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— (*with* Rolin, Jean-Philippe) Intégration des fonctions sous-analytiques et volumes des sous-ensembles sous-analytiques. (English and French summaries) [Integration of subanalytic functions and volumes of subanalytic subsets] **2000i:32011**

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Items with secondary classifications in 32B20

Birbrair, Lev Local bi-Lipschitz classification of 2-dimensional semialgebraic sets. (English summary) **2000j:14091**

Lipshitz, Leonard (*with* Robinson, Zachary) Rigid subanalytic subsets of curves and surfaces. (English summary) **2000j:32037**

Robinson, Zachary *see* **Lipshitz, Leonard**, **2000j:32037**

32B99 None of the above, but in this section

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Płoski, Arkadiusz A property of polynomials on complex algebraic sets. (English summary) **2000i:32012**

32Cxx Analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

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Coste, Michel *see* **Bochnak, Jacek et al.**, **2000a:14067**

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Narasimhan, Raghavan *see* **Fefferman, Charles L., 2000c:32053**
Rolin, Jean-Philippe *see* **Lion, Jean-Marie, 2000i:32011**
Roy, Marie-Françoise *see* **Bochnak, Jacek et al., 2000a:14067**

32C07 Real-analytic sets, complex Nash functions [see also 14P15, 14P20]

Tancredi, Alessandro Some remarks on the semi-local extension of Nash maps. (English and Italian summaries) **2000d:32012**
— (*with* Tognoli, Alberto) On the relative Nash approximation of analytic maps. (English summary) **2000g:32008**
Tognoli, Alberto *see* **Tancredi, Alessandro, 2000g:32008**

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Gong, Xianghong *see* **Burns, D. M., Jr., 2000j:32062**

32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

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— On the classification of complex analytic supermanifolds. (English summary) **2000k:32009**
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Versaie, S. (*with* Rezaii, M. M.) Complex supermanifolds with boundary and their parametrization. (English summary) **2000m:32013**

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Duplíı, S. A. Superconformal-like transformations and nonlinear realizations. (English summary) **2000a:58009**
Hodgkin, L. Supermoduli and their symmetries. (English summary) **2000a:32026**
Onishchik, A. L. (*with* Platonova, O. V.) Homogeneous supermanifolds associated with a complex projective space. I. (Russian. Russian summary) **2000e:14090**
— (*with* Platonova, O. V.) Homogeneous supermanifolds associated with the complex projective space. II. (Russian. Russian summary) **2000k:14040**
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32C15 Complex spaces

Axelsson, Reynir (*with* Magnússon, Jón) A closure operation on complex analytic cones and torsion. (English and French summaries) **2000c:32029**
Barlet, Daniel (*with* Magnússon, Jón) Intégration de classes de cohomologie méromorphes et diviseurs d'incidence. (English and French summaries) [Integration of meromorphic cohomology classes and incidence divisors] **2000c:32030**
Golovin, V. D. On holomorphically complete complex spaces. (Russian) **2000g:32009**
Huang, Weiming (*with* Lipman, Joseph) Differential invariants of embeddings of manifolds in complex spaces. (English summary) **2000c:32031**
Jurchescu, Martin (*with* Spallek, Karlheinz; Succi, Francesco) Pluriharmonic spaces. **2000f:32004**
Lipman, Joseph *see* **Huang, Weiming, 2000c:32031**
Magnússon, Jón *see* **Axelsson, Reynir, 2000c:32029** *and* **Barlet, Daniel, 2000c:32030**
Spallek, Karlheinz *see* **Jurchescu, Martin et al., 2000f:32004**
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Abe, Makoto² Holomorphic affine bundles on the complement of an analytic set. **2000f:32030**

32C18 Topology of analytic spaces

Items with secondary classifications in 32C18

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32C22 Embedding of analytic spaces

Items with secondary classifications in 32C22

Il'yashenko, Yuliĭ S. (*with* Shcherbakov, A. A.) On skew cylinders and simultaneous uniformization. (Russian) **2000f:32011**
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32C25 Analytic subsets and submanifolds

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Items with secondary classifications in 32C25

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Globevnik, Josip Holomorphically embedded discs with rapidly growing area. (English summary) **2000e:32017**
Gong, Xianghong *see* **Burns, D. M., Jr., 2000j:32062**
Lupacciolu, Guido (*with* Stout, Edgar Lee) Continuous families of nonnegative divisors. (English summary) **2000b:32028**
Stout, Edgar Lee *see* **Lupacciolu, Guido, 2000b:32028**

32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Berenstein, Carlos A. (*with* Yger, Alain) Green currents and analytic continuation. **2000a:32014**
Duval, Julien (*with* Sibony, Nessim) Hulls and positive closed currents. **2000a:32015**
Giret, Stéphane Prolongement de courants positifs à travers une sous-variété CR. (English and French summaries) [Extension of positive currents through a CR submanifold] **2000j:32017**
Guedj, Vincent Approximation of currents on complex manifolds. **2000b:32017**
Meo, Michel Caractérisation des courants associés aux cycles algébriques par leur transformé de Chow. (English summary) [Characterization of the currents associated with algebraic cycles by their Chow transform] **2000m:32014**
Sibony, Nessim *see* **Duval, Julien, 2000a:32015**
Slodkowski, Zbigniew Uniqueness property for positive closed currents in $\mathbf{C}^2$. (English summary) **2000i:32013**
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Bedford, Eric (*with* Smillie, John) Polynomial diffeomorphisms of $\mathbf{C}^2$. V. Critical points and Lyapunov exponents. (English summary) **2000i:32029**
Bonavero, Laurent Inégalités de morse holomorphes singulières. (English summary) [Singular holomorphic Morse inequalities] **2000k:32020**
Diller, Jeffrey Birational maps, positive currents, and dynamics. **2000e:32024**
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Henne, Benedikt ★ Nevanlinnaklassen in nichtglatten streng pseudokonvexen Bereichen. (German) [Nevanlinna classes in nonsmooth strictly pseudoconvex domains] **2000a:32004**
Jeddi, A. (*with* Mardhy, A.) Pôles de $\int_A f^s \bullet$ pour une singularité presque isolée. (English summary) [Poles of $\int_A f^s \bullet$ for an almost isolated singularity] **2000a:32056**
Lamari, Ahcène Courants kählériens et surfaces compactes. (English and French summaries) [Kähler currents and compact surfaces] **2000d:32034**
— Le cône kählérien d'une surface. (English and French summaries) [The Kähler cone of a surface] **2000e:32029**
Lelong, Pierre ★ Positivity in complex spaces and plurisubharmonic functions/Positivité dans les espaces complexes et fonctions plurisousharmoniques. (French summary) **2000e:32043**
Magnússon, Jón *see* **Barlet, Daniel, 2000c:32030**
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Meo, Michel Les nombres de Lelong d'un transformé de Chow. (English and French summaries) [The Lelong numbers of a Chow transform] **2000h:32049**
Nagashima, Yasuo Abel's theorem for divisors on an arbitrary compact complex manifold. (English summary) **2000i:32033**
(Ribenboim, Paulo) *see* **Lelong, Pierre, 2000e:32043**
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Tsuji, Hajime Existence and applications of analytic Zariski decompositions. (English summary) **2000d:32038**

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

Ballico, Edoardo Algebraic approximation of analytic coherent sheaves. **2000c:32033**

Items with secondary classifications in 32C35

Baran, Andrei Semi-simplicial free resolutions for coherent sheaves. **2000h:55031**
Golovin, V. D. On holomorphically complete complex spaces. (Russian) **2000g:32009**
Hausen, Jürgen (*with* Heinzner, Peter) Actions of compact groups on coherent sheaves. (English summary) **2000a:32048**
Heinzner, Peter *see* **Hausen, Jürgen, 2000a:32048**
Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) Isomorphisme de Dolbeault dans les variétés CR. (English and French summaries) [Dolbeault isomorphism in CR manifolds] **2000a:32085**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2000a:32085**
Ramani, Vimala (*with* Sankaran, Parameswaran) Dolbeault cohomology of compact complex homogeneous manifolds. (English summary) **2000d:32039**
Sankaran, Parameswaran *see* **Ramani, Vimala, 2000d:32039**

32C36 Local cohomology of analytic spaces

Nakamura, Yayoi *see* **Tajima, Shinichi et al., 2000c:32034**
Oaku, Toshinori *see* **Tajima, Shinichi et al., 2000c:32034**
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32C37 Duality theorems

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Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) Some applications of Serre duality in CR manifolds. (English summary) **2000c:32089**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2000c:32089**

32C38 Sheaves of differential operators and their modules, D-modules [see also 14F10, 16S32, 35A27, 58J15]

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Colin, Violaine Formal microlocalization. (*see* **2000k:00028**)
Coutinho, S. C. (*with* Holland, Martin P.; Levcovitz, D.) Conormal varieties and characteristic varieties. (English summary) **2000i:32014**
D'Agnolo, Andrea (*with* Schapira, Pierre) Kernel calculus and extension of contact transformations to $\mathscr{D}$-modules. **2000d:32013**
— (*with* Tonin, Francesco) Cauchy problem for hyperbolic $\mathscr{D}$-modules with regular singularities. (English summary) **2000e:32007**
Goncharov, A. B. Differential equations and integral geometry. **2000a:32016**
Gyoja, Akihiko Preliminaries for the theory of prehomogeneous vector spaces. **2000h:32009**
Holland, Martin P. *see* **Coutinho, S. C. et al., 2000i:32014**
Iwasaki, Katsunori Gevrey cohomology groups for confluent hypergeometric systems. (*see* **2000k:00028**)
Kashiwara, Masaki (*with* Schapira, Pierre) Laplace transform and Fourier-Sato transform. **2000e:32008**
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Koshimizu, Hiroshi (*with* Takeuchi, Kiyoshi[2]) Extension theorems for the distribution solutions to $\mathscr{D}$-modules with regular singularities. (English summary) **2000j:32018**
Laurent, Yves (*with* Monteiro Fernandes, Teresa) Topological boundary values and regular $\mathscr{D}$-modules. **2000c:32035**
— Vanishing cycles of irregular $\mathscr{D}$-modules. (English summary) **2000f:32005**
Levcovitz, D. *see* **Coutinho, S. C. et al., 2000i:32014**
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Monteiro Fernandes, Teresa *see* **Laurent, Yves, 2000c:32035**
Nang, Philibert $\mathscr{D}$-modules associated to the group of similitudes. (English summary) **2000b:32018**
Narváez Macarro, Luis *see* **Mebkhout, Zoghman, 2000d:32015**
Schapira, Pierre Recent results on the index theorem. (*see* **2000k:00028**)
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Takeuchi, Kiyoshi[2] A Hartogs-type theorem for solutions to systems with regular singularities. (English summary) **2000i:32015**
— Higher codimensional BVP for $\mathscr{D}$-modules. (Japanese) (*see* **2000k:00028**)
— *see also* **Koshimizu, Hiroshi, 2000j:32018**
Tonin, Francesco Microlocal tempered inverse image and Cauchy problem. (English summary) **2000d:32016**
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— (*with* Schapira, Pierre) The Radon-Penrose correspondence. II. Line bundles and simple $\mathscr{D}$-modules. (English summary) **2000e:32030**
Evens, Sam (*with* Mirković, Ivan) Characteristic cycles for the loop Grassmannian and nilpotent orbits. **2000h:22017**
Kato, Goro (*with* Struppa, Daniele C.) ★ Fundamentals of algebraic microlocal analysis. (English summary) **2000h:58042**
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Lê Dũng Tráng Morsification of $\mathscr{D}$-modules. (English summary) **2000a:32063**
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Schapira, Pierre *see* **D'Agnolo, Andrea, 2000e:32030** *and* **2000m:58036**
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32C99 None of the above, but in this section

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32Dxx Analytic continuation

32D05 Domains of holomorphy

Li, Xia Dong Characterization of holomorphy by validity of Oka's principle. (English summary) **2000b:32019**
Maresin, I. V. (*with* Sergeev, A. G.) A microlocal version of Cartan-Grauert's theorem. (English summary) **2000b:32020**
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Items with secondary classifications in 32D05

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Mauer, Murielle Domains of analytic existence in real Fréchet spaces. (English summary) **2000a:46068**
Zhou, Xiang Yu An invariant version of the Cartan lemma and complexifications of invariant domains of holomorphy. (Russian) **2000i:32038**
Zsidó, László *see* **D'Antoni, Claudio, 2000d:32018**

32D10 Envelopes of holomorphy

Ligocka, Ewa On the uniformization of Hartogs domains in $\mathbf{C}^2$ and their envelopes of holomorphy. **2000e:32009**
Lupacciolu, Guido Envelopes of holomorphy in $\mathbf{C}^2$. **2000m:32016**
Shcherbina, N. (*with* Tomassini, Giuseppe) The Dirichlet problem for Levi-flat graphs over unbounded domains. **2000a:32018**
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Items with secondary classifications in 32D10

Duval, Julien (*with* Sibony, Nessim) Hulls and positive closed currents. **2000a:32015**
Dwilewicz, Roman (*with* Hill, C. Denson) Spinning analytic discs and domains of dependence. (English summary) **2000a:32076**
Hill, C. Denson *see* **Dwilewicz, Roman, 2000a:32076**
Iannuzzi, Andrea Characterizations of G-tube domains. (English summary) **2000e:32034**
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Merker, Joël (*with* Porten, Egmont) Enveloppe d'holomorphie locale des variétés CR et élimination des singularités pour les fonctions CR intégrables. (English and French summaries) [Local envelope of holomorphy of CR manifolds and removable singularities for integrable CR functions] **2000b:32067**
Mohnke, Klaus On fillings by holomorphic discs of the levels of a Morse function. (English summary) **2000b:32023**
Neeb, Karl-Hermann On the complex geometry of invariant domains in complexified symmetric spaces. (English and French summaries) **2000i:32040**
Nemirovskiĭ, S. Yu. Holomorphic functions and embedded real surfaces. (Russian. Russian summary) **2000h:32035**
Porten, Egmont *see* **Merker, Joël, 2000b:32067**
Shevchishin, V. V. *see* **Ivashkovich, S. M., 2000d:32046**
Sibony, Nessim *see* **Duval, Julien, 2000a:32015**

32D15 Continuation of analytic objects

Adachi, Kenzō (*with* Andersson, Mats E. L.; Cho, Hong Rae) L^p and H^p extensions of holomorphic functions from subvarieties of analytic polyhedra. (English summary) **2000c:32036**
Andersson, Mats E. L. *see* **Adachi, Kenzō et al., 2000c:32036**
Chen, Bo Yong Extensions of L^2 holomorphic (p, q) forms. (Chinese. Chinese summary) **2000d:32017**
Cho, Hong Rae *see* **Adachi, Kenzō et al., 2000c:32036**
D'Antoni, Claudio (*with* Zsidó, László) Methods of functional analysis in problems of analytic extension. (English summary) **2000d:32018**
Diederich, Klas (*with* Herbort, Gregor) An alternative proof of an extension theorem of T. Ohsawa. **2000j:32019**
Harita, Mitsuru Extension of meromorphic functions from submanifolds. (English summary) **2000b:32021**
Herbort, Gregor *see* **Diederich, Klas, 2000j:32019**
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32D20 Removable singularities

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Harris, Adam Hartogs phenomena for Hermitian vector bundles. (English summary) **2000d:32035**
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32D26 Riemann domains

Lee, Jinkee (*with* Shon, Kwang Ho) On pseudoconvex Riemann domains in infinite-dimensional complex spaces. (English and Chinese summaries) **2000e:32012**
Shon, Kwang Ho *see* **Lee, Jinkee, 2000e:32012**

32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

Asserda, Saïd Covering of a holomorphically convex manifold carrying a positive line bundle. (English summary) **2000h:32010**
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32E10 Stein spaces, Stein manifolds

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Il'yashenko, Yulii S. Covering manifolds for analytic families of leaves of foliations by analytic curves. **2000a:32019**
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32E20 Polynomial convexity

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32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

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32E35 Global boundary behavior of holomorphic functions

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Thilliez, Vincent Division et extension dans des classes de Carleman de fonctions holomorphes. (English summary) [Division and extension in Carleman classes of holomorphic functions] **2000b:32011**

32E40 The Levi problem

Slodkowski, Zbigniew (*with* Tomassini, Giuseppe) Evolution of subsets of $\mathbf{C}^2$ and parabolic problem for the Levi equation. **2000e:32013**
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Vâjâitu, Viorel A Levi problem for continuous strongly q-plurisubharmonic functions. (English and French summaries) **2000a:32021**
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32Fxx Geometric convexity

32F10 q-convexity, q-concavity

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— A Levi problem for continuous strongly q-plurisubharmonic functions. (English and French summaries) **2000a:32021**

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32F17 Other notions of convexity

Belhachemi, Rachid Local versus global peak sets in real-analytic convex boundaries. (English summary) **2000m:32020**
Boo, Jörgen Quadratic convexity. (English summary) **2000h:32013**
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Chen, Bo Yong Completeness of the Bergman metric on non-smooth pseudoconvex domains. (English summary) **2000i:32021**
Herbort, Gregor The Bergman metric on hyperconvex domains. (English summary) **2000i:32020**
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32F18 Finite-type conditions

Diederich, Klas (*with* Fornæss, John Erik) Support functions for convex domains of finite type. **2000b:32024**
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Kolář, Martin On local convexifiability of type four domains in $\mathbf{C}^2$. (English summary) **2000f:32010**

Items with secondary classifications in 32F18

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32F32 Analytical consequences of geometric convexity (vanishing theorems, etc.)

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32F45 Invariant metrics and pseudodistances

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Chen, Bo Yong Completeness of the Bergman metric on non-smooth pseudoconvex domains. (English summary) **2000i:32021**
— (*with* Zhang, Jinhao) Bergman kernel and metric on non-smooth pseudoconvex domains. (English summary) **2000h:32014**
Do Duc Thai (*with* Duc, Pham Viet) The Kobayashi k-metrics on complex spaces. (English summary) **2000i:32019**
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Herbort, Gregor The Bergman metric on hyperconvex domains. (English summary) **2000i:32020**
Jarnicki, Marek (*with* Pflug, Peter) New examples of effective formulas for holomorphically contractible functions. (English summary) **2000g:32015**

Kim, Kang-Tae On the Wu invariant metric. (Korean. Korean summary) **2000b:32025**
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Pflug, Peter (*with* Zwonek, Włodzimierz) Effective formulas for invariant functions—case of elementary Reinhardt domains. (English summary) **2000b:32026a**
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— *see also* **Jarnicki, Marek, 2000g:32015**
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Visintin, Barbara How to compute complex geodesics in Reinhardt domains. (English summary) **2000c:32041**
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32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16S80, 58H10, 58H15]

Bandelloni, Giuseppe (*with* Lazzarini, Serge) Kodaira-Spencer deformation of complex structures and Lagrangian field theory. (English summary) **2000d:32022**
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Lazzarini, Serge *see* **Bandelloni, Giuseppe, 2000d:32022**
Mok, Ngaiming G-structures on irreducible Hermitian symmetric spaces of rank ≥ 2 and deformation rigidity. (English summary) **2000d:32023**
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Szőke, Róbert Adapted complex structures and geometric quantization. (English summary) **2000g:53106**
Takamura, Shigeru CR structures on the 3-sphere and the blow-up of the projective plane. (English summary) **2000j:32059**
Usui, Sampei Torelli-type problems [translation of Sūgaku **49** (1997), no. 3, 235–252; MR 99d:14008]. (*see* **2000m:00054**)

32G07 Deformations of special (e.g. CR) structures

Azevedo Scárdua, Bruno *see* **Lins Neto, Alcides et al., 2000b:32027**
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Apanasov, B. Geometry and topology of complex hyperbolic manifolds and Cauchy-Riemann manifolds. (Russian) **2000f:32034**
Balogh, Zoltán M. Equivariant contactomorphisms of circular surfaces. (English summary) **2000h:32051**
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32G08 Deformations of fiber bundles

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32G20 Period matrices, variation of Hodge structure; degenerations [see also 14D05, 14D07, 14K30]

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32G34 Moduli and deformations for ordinary differential equations (e.g. Khnizhnik-Zamolodchikov equation) [see also 34Mxx]

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32Hxx Holomorphic mappings and correspondences

32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

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32H04 Meromorphic mappings

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32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

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Wang, Julie Tzu-Yueh *ABC* estimate, integral points, and geometry of $\mathbf{P}^n$ minus hyperplanes. (English summary) **2000j:11114**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

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Fujimoto, Hirotaka Uniqueness problem with truncated multiplicities in value distribution theory. II. (English summary) **2000h:32019**
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Li, Bao Qin On the Bézout problem and area of interpolating varieties in $\mathbf{C}^n$. II. (English summary) **2000a:32033**
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— (*with* Yang, Chung-Chun) A unique range set of p-adic meromorphic functions with 10 elements. (English summary) **2000a:30088**
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Shirosaki, Manabu On some hypersurfaces and holomorphic mappings. **2000j:32041**
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32H35 Proper mappings, finiteness theorems

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— Holomorphic vector fields and proper holomorphic self-maps of Reinhardt domains. **2000g:32020**
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— (*with* Pan, Yi Fei; Sukhov, A. B.) On proper holomorphic mappings from domains with T-action. (English summary) **2000b:32036**
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Spiro, Andrea F. *see* **Kim, Kang-Tae et al., 2000e:32021**
Su, Jian Bing Extension of proper μ-holomorphic mappings. (English summary) **2000e:32023**
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32H40 Boundary regularity of mappings

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Chirka, E. M. (*with* Coupet, Bernard; Sukhov, A. B.) On boundary regularity of analytic discs. **2000f:32022**
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Mir, Nordine An algebraic characterization of holomorphic nondegeneracy for real algebraic hypersurfaces and its application to CR mappings. (English summary) **2000e:32048**
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Su, Jian Bing Extension of proper μ-holomorphic mappings. (English summary) **2000e:32023**
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Sukhov, A. B. *see* **Coupet, Bernard, 2000d:32030**
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32H50 Iteration problems

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— (*with* Smillie, John) Polynomial diffeomorphisms of $\mathbf{C}^2$. V. Critical points and Lyapunov exponents. (English summary) **2000i:32029**
— (*with* Smillie, John) External rays in the dynamics of polynomial automorphisms of $\mathbf{C}^2$. **2000j:32028**
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Cantat, Serge Dynamique des automorphismes des surfaces projectives complexes. (English and French summaries) [Dynamics of automorphisms of complex projective surfaces] **2000c:32061**
Coman, Dan (*with* Dabija, Marius) On the dynamics of some diffeomorphisms of $\mathbf{C}^2$ near parabolic fixed points. (English summary) **2000f:32024**
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Diller, Jeffrey Birational maps, positive currents, and dynamics. **2000e:32024**
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Favre, Charles Multiplicity of holomorphic functions. (English summary) **2000m:32026**
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Hu, Pei Chu (*with* Yang, Chung-Chun) Dynamics of composite mappings. (English summary) **2000c:32062**

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Joseph, James E. (*with* Kwack, Myung H.) A generalization of the Schwarz lemma to normal selfmaps of complex spaces. (English summary) **2000k:32016**
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Reich, Simeon (*with* Shoikhet, David) Metric domains, holomorphic mappings and nonlinear semigroups. (English summary) **2000f:47096**
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32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J05 Compactification of analytic spaces

Ji, Lizhen The greatest common quotient of Borel-Serre and the toroidal compactifications of locally symmetric spaces. (English summary) **2000c:32065**

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Furushima, Mikio Non-projective compactifications of $\mathbf{C}^3$. III. A remark on indices. (English summary) **2000f:14062**
Goresky, Mark (*with* Tai, Yung-Sheng) Toroidal and reductive Borel-Serre compactifications of locally symmetric spaces. (English summary) **2000h:32030**
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32J15 Compact surfaces

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— (*with* Oeljeklaus, Karl) Surfaces de la classe VII_0 et automorphismes de Hénon. (English and French summaries) [Surfaces of class VII_0 and Hénon automorphisms] **2000a:32037**
— (*with* Oeljeklaus, Karl; Toma, Matei) Surfaces de la classe VII_0 avec champs de vecteurs. (English and French summaries) [Surfaces of class VII_0 with vector fields] **2000e:32027**
Hillman, Jonathan A. Complex surfaces which are fibre bundles. (English summary) **2000i:32031**
Nemirovskiĭ, S. Yu. Complex analysis and differential topology on complex surfaces. (Russian. Russian summary) **2000k:32018**
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Biquard, Olivier Les équations de Seiberg-Witten sur une surface complexe non kählérienne. (English summary) [Seiberg-Witten equations on a non-Kähler complex surface] **2000d:57048**
Brînzănescu, Vasile Holomorphic structures in vector bundles over complex surfaces. **2000h:14036**
Buchdahl, Nicholas On compact Kähler surfaces. (English and French summaries) **2000f:32029**
Buzzard, Gregery T. (*with* Lu, Steven S. Y.) Algebraic surfaces holomorphically dominable by $\mathbf{C}^2$. **2000m:14040**
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Lamari, Ahcène Courants kählériens et surfaces compactes. (English and French summaries) [Kähler currents and compact surfaces] **2000d:32034**
Lu, Steven S. Y. *see* **Buzzard, Gregery T.**, **2000m:14040**
Mall, Daniel On holomorphic and transversely holomorphic foliations on Hopf surfaces. (English summary) **2000a:32025**
Okonek, Christian (*with* Teleman, Andrei) 3-dimensional Seiberg-Witten invariants and non-Kählerian geometry. **2000d:57050**
Saeki, Osamu (*with* Sakuma, Kazuhiro) Special generic maps of 4-manifolds and compact complex analytic surfaces. **2000f:57032**
Sakuma, Kazuhiro *see* **Saeki, Osamu**, **2000f:57032**
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32J17 Compact 3-folds

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Brunella, Marco On the automorphism group of a complex sphere. (English summary) **2000f:32028**
Campana, Frédéric (*with* Kreußler, B.) A conic bundle description of Moishezon twistor spaces without effective divisors of degree one. (English summary) **2000d:32033**
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LeBrun, Claude Topology versus Chern numbers for complex 3-folds. (English summary) **2000h:32023**
Pedersen, Henrik (*with* Poon, Yat Sun) Connected sums of self-dual manifolds and equivariant relative smoothings. (English summary) **2000j:32031**
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Birkenhake, Ch. (*with* González-Aguilera, Víctor; Lange, Herbert) Automorphism groups of 3-dimensional complex tori. (English summary) **2000c:32071**
Campana, Frédéric (*with* Kreußler, B.) Existence of twistor spaces of algebraic dimension two over the connected sum of four complex projective planes. (English summary) **2000c:32070**
Chi, Quo-Shin (*with* Schwachhöfer, Lorenz J.) Exotic holonomy on moduli spaces of rational curves. (English summary) **2000b:53068**
Furushima, Mikio Non-projective compactifications of $\mathbf{C}^3$. III. A remark on indices. (English summary) **2000f:14062**
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Honda, Nobuhiro Donaldson-Friedman construction and deformations of a triple of compact complex spaces. **2000m:32022**
— (*with* Itoh, Mitsuhiro) A Kummer type construction of self-dual metrics on the connected sum of four complex projective planes. (English summary) **2000k:32021**
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Kreußler, B. *see* **Campana, Frédéric**, **2000c:32070**
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Namikawa, Yoshinori Calabi-Yau manifolds and deformation theory. (Japanese) **2000h:14032**
Schwachhöfer, Lorenz J. *see* **Chi, Quo-Shin**, **2000b:53068**

32J18 Compact n-folds

Cordero, Luis A. (*with* Fernández, Marisa; Gray, Alfred; Ugarte, Luis) The holomorphic fiber bundle structure of some compact complex nilmanifolds. (English summary) (*see* **2000a:53001**)
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Gray, Alfred *see* **Cordero, Luis A. et al.**, (**2000a:53001**)
Izawa, Takeshi Chern number formula for ramified coverings. (English summary) **2000g:32022**
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Ugarte, Luis *see* **Cordero, Luis A. et al.**, (**2000a:53001**)

Items with secondary classifications in 32J18

Andreatta, Marco Moishezon manifolds. (English summary) **2000c:14055**
Donaldson, S. K. (*with* Thomas, R. P.) Gauge theory in higher dimensions. **2000a:57085**
Kapranov, Mikhail M. Rozansky-Witten invariants via Atiyah classes. (English summary) **2000h:57056**
Kontsevich, Maxim Rozansky-Witten invariants via formal geometry. (English summary) **2000h:57057**
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Tyurin, N. A. Semiholomorphic structures. (Russian. Russian summary) **2000c:53026**

32J25 Transcendental methods of algebraic geometry [see also 14C30]

Clemens, Herbert ★ Introduction to Hodge theory. **2000m:32028**
Foth, Philip A. Logarithmic forms with twisted coefficients. (English summary) **2000b:32041**
Hwang, Jun-Muk (*with* To, Wing-Keung) On Seshadri constants of canonical bundles of compact complex hyperbolic spaces. (English summary) **2000i:32034**
Matsubara, Toshiharu On log Hodge structures of higher direct images. **2000e:32028**
Ohsawa, Takeo Some applications of L^2 estimates to complex geometry [translation of Sūgaku **48** (1996), no. 2, 142–161; MR 97h:32041]. (*see* **2000g:00095**)
Timorin, V. A. Mixed Hodge-Riemann bilinear relations in a linear context. (Russian. Russian summary) **2000c:32066**
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— (*with* Gaveau, Bernard) Théorie de Hodge et complexes de de Rham de certains espaces analytiques. II. Calculs explicites pour la quadrique singulière. (English and French summaries) [Hodge theory and de Rham complexes of certain analytic spaces. II. Explicit calculations for the singular quadric] **2000b:32050**
Arapura, Donu (*with* Nori, Madhav V.) Solvable fundamental groups of algebraic varieties and Kähler manifolds. (English summary) **2000k:14018**
Eyssidieux, Philippe Kähler hyperbolicity and variations of Hodge structures. **2000g:14015**
— Systèmes linéaires adjoints L^2. (English and French summaries) [L^2 adjoint linear systems] **2000d:32036**
Freed, Daniel S. Special Kähler manifolds. (English summary) **2000f:53060**
Gaveau, Bernard *see* **Ancona, Vincenzo**, **2000b:32049** *and* **2000b:32050**
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Lewis, James D. ★ A survey of the Hodge conjecture. (English summary) **2000a:14010**
Mayer, Richárd Coupled contact systems and rigidity of maximal dimensional variations of Hodge structure. (English summary) **2000j:14017**
Mourougane, Christophe Versions kählériennes du théorème d'annulation de Bogomolov. (English summary) [Kählerian versions of the Bogomolov vanishing theorem] **2000b:32044**
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Tsuji, Hajime Existence and applications of analytic Zariski decompositions. (English summary) **2000d:32038**
Usui, Sampei Recovery of vanishing cycles by log geometry: case of several variables. (English summary) **2000g:14014**
Verbitsky, Mikhail Mirror symmetry for hyper-Kähler manifolds. (English summary) **2000a:53084**

32J27 Compact Kähler manifolds: generalizations, classification

Buchdahl, Nicholas On compact Kähler surfaces. (English and French summaries) **2000f:32029**
Campana, Frédéric Connexité abélienne des variétés kählériennes compactes. (English and French summaries) [Abelian connectedness of compact Kähler manifolds] **2000h:32024**
— $\mathcal{C}$-connectedness of compact Kähler manifolds. I. (English summary) **2000i:32035**
— Quotients résolubles des groupes de Kähler et ensembles de Green-Lazarsfeld. (English and French summaries) [Solvable quotients of Kähler groups and Green-Lazarsfeld loci] **2000h:32025**
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Huybrechts, Daniel Compact hyper-Kähler manifolds: basic results. **2000a:32039**
Lamari, Ahcène Courants kählériens et surfaces compactes. (English and French summaries) [Kähler currents and compact surfaces] **2000d:32034**
— Le cône kählérien d'une surface. (English and French summaries) [The Kähler cone of a surface] **2000e:32029**
Merkulov, Sergei Strong homotopy algebras of a Kähler manifold. **2000h:32026**
Toledo, Domingo *see* **Carlson, James A.**, **2000a:32038**
Verbitsky, Mikhail Hypercomplex varieties. (English summary) **2000m:32029**

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Arapura, Donu (*with* Nori, Madhav V.) Solvable fundamental groups of algebraic varieties and Kähler manifolds. (English summary) **2000k:14018**
Berenstein, Carlos A. (*with* Yger, Alain) Green currents and analytic continuation. **2000a:32014**
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32J81 Applications to physics

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Andreas, Björn On vector bundles and chiral matter in $N = 1$ heterotic compactifications. (English summary) **2000f:81148**
Aspinwall, Paul S. String theory and duality. (English summary) **2000c:81225**
— (*with* Plesser, Moshe Ronen) T-duality can fail. (English summary) **2000j:81195**
Cacciatori, Sergio (*with* Zanon, Daniela) Gravitational corrections to $N = 2$ supersymmetric Lagrangians. (English summary) **2000b:83093**
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32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type of problem)

32K05 Banach analytic spaces [see also 58Bxx]

Do Duc Thai (*with* Nguyen Le Huong) On the disc-convexity of complex Banach manifolds. (English summary) **2000b:32042**
Nguyen Le Huong *see* **Do Duc Thai, 2000b:32042**

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Grets'kiĭ, O. S. On a sufficient holomorphy condition for a class of mappings of domains of a Banach space. (Ukrainian. English and Russian summaries) **2000c:46087**
Nguyen Thai Son *see* **Do Duc Thai, 2000e:46059**

32K07 Formal and graded complex spaces [see also 58C50]

Izumi, Shuzo Convergence of formal morphisms of completions of complex spaces. (English summary) **2000j:32032**

32K15 Differentiable functions on analytic spaces, differentiable spaces [see also 58C25]

Nguyen Thai Son Separately holomorphic functions on compact sets. (English summary) **2000a:32040**

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32K99 None of the above, but in this section

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Harita, Mitsuru Extension of meromorphic functions from submanifolds. (English summary) **2000b:32021**
Honda, Tatsuhiro Linear isometries on Hilbert spaces. (English summary) **2000a:58012**
Hu, Chuan-Gan On vector-valued functions and their applications. (English summary) **2000b:46063**
Lee, Jinkee (*with* Shon, Kwang Ho) On pseudoconvex Riemann domains in infinite-dimensional complex spaces. (English and Chinese summaries) **2000e:32012**
— (*with* Shon, Kwang Ho) The $\overline{\partial}$-equation in $\mathbf{C}^n$ for holomorphic $(0,2)$-forms defined on infinite-dimensional spaces. (English summary) **2000a:32080**
— (*with* Shon, Kwang Ho) The $\overline{\partial}$ problem for $(0,2)$-forms in infinite-dimensional complex spaces. **2000f:32047**
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Lempert, László The Dolbeault complex in infinite dimensions. II. (English summary) **2000e:32053**
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Shon, Kwang Ho *see* **Lee, Jinkee, 2000a:32080**;**2000e:32012** *and* **2000f:32047**

32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic bundles and generalizations

Abe, Makoto[2] Holomorphic affine bundles on the complement of an analytic set. **2000f:32030**
Bradlow, Steven B. (*with* García Prada, Oscar) A Hitchin-Kobayashi correspondence for coherent systems on Riemann surfaces. (English summary) **2000k:32019**
Buchdahl, Nicholas (*with* Harris, Adam) Holomorphic connections and extension of complex vector bundles. (English summary) **2000h:32027**
Catlin, David W. (*with* D'Angelo, John P.) An isometric imbedding theorem for holomorphic bundles. **2000g:32023**
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Mourougane, Christophe Images directes de fibrés en droites adjoints. (English summary) [Direct images of adjoint line bundles] **2000a:32042**
Pouzancre, Agnès Résidus d'ordre supérieur pour une famille d'actions sur un fibré vectoriel holomorphe. (English and French summaries) [Higher-order residues for a family of actions on a holomorphic vector bundle] **2000a:32043**
Toma, Matei Stable bundles with small c_2 over 2-dimensional complex tori. **2000j:32033**

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Aikou, Tadashi Conformal flatness of complex Finsler structures. (English summary) **2000a:53129**
Asserda, Saïd Covering of a holomorphically convex manifold carrying a positive line bundle. (English summary) **2000h:32010**
Biswas, Indranil (*with* Mourougane, Christophe) Holomorphic connection on a Fano manifold with Picard number one. (English summary) **2000j:14064**
Brînzănescu, Vasile Holomorphic structures in vector bundles over complex surfaces. **2000h:14036**
Brylinski, Jean-Luc Comparison of the Beilinson-Chern classes with the Chern-Cheeger-Simons classes. **2000b:14024**
— (*with* Foth, Philip A.) Moduli of flat bundles on open Kähler manifolds. (English summary) **2000b:32029**
Foth, Philip A. *see* **Brylinski, Jean-Luc, 2000b:32029**
Gramsch, Bernhard Oka's principle for special Fréchet Lie groups and homogeneous manifolds in topological algebras of the microlocal analysis. (English summary) **2000a:46076**
Köhler, Kai Complex analytic torsion forms for torus fibrations and moduli spaces. (English summary) **2000m:58054**
Li, Jia Yu[1] (*with* Narasimhan, M. S.) Hermitian-Einstein metrics on parabolic stable bundles. (English summary) **2000j:32040**
Miyajima, Kimio A note on the closed rangeness of vector bundle valued tangential Cauchy-Riemann operator. (English summary) **2000e:32046**
Mourougane, Christophe *see* **Biswas, Indranil, 2000j:14064**
Narasimhan, M. S. *see* **Li, Jia Yu**[1]**, 2000j:32040**
Tsai, I-Hsun Geometry of determinant line bundles associated with Riemann surfaces. (English summary) **2000e:58052**
Verbitsky, Mikhail Hyperholomorphic bundles over a hyper-Kähler manifold. **2000a:32051**

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

Bonavero, Laurent Inégalités de morse holomorphes singulières. (English summary) [Singular holomorphic Morse inequalities] **2000k:32020**
Chuah, Meng-Kiat Holomorphic sections of pre-quantum line bundles on $G/(P,P)$. (English summary) **2000m:32030**
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Harris, Adam Extension of holomorphic vector bundles across a totally real submanifold. (English summary) **2000b:32043**
Takayama, Shigeharu Adjoint linear series on weakly 1-complete Kähler manifolds. II. Lefschetz type theorem on quasi-abelian varieties. **2000d:32037**
Tsuji, Hajime Existence and applications of analytic Zariski decompositions. (English summary) **2000d:32038**

Items with secondary classifications in 32L10

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— Quillen metrics and singular fibres in arbitrary relative dimension. (English summary) **2000a:58084**
— Local index theory and higher analytic torsion. (English summary) **2000e:58049**
Braverman, Maxim Symplectic cutting of Kähler manifolds. (English summary) **2000a:53146**
Brylinski, Jean-Luc Geometric construction of Quillen line bundles. **2000f:14032**
de Cataldo, Mark Andrea A. Singular Hermitian metrics on vector bundles. (English summary) **2000c:32067**
Catlin, David W. The Bergman kernel and a theorem of Tian. **2000e:32001**
Gillet, Henri (*with* Soulé, Christophe) Upper bounds for regularized determinants. (English summary) **2000a:58086**
Honda, Tomoaki A localization lemma and its applications. (English summary) **2000c:58044**
Merkulov, Sergei (*with* Schwachhöfer, Lorenz J.) Classification of irreducible holonomies of torsion-free affine connections. **2000m:53065a**
— (*with* Schwachhöfer, Lorenz J.) Addendum to: "Classification of irreducible holonomies of torsion-free affine connections". **2000m:53065b**
Ruan, Wei-Dong Canonical coordinates and Bergmann [Bergman] metrics. (English summary) **2000a:32050**
Schwachhöfer, Lorenz J. *see* **Merkulov, Sergei, 2000m:53065a** *and* **2000m:53065b**
Soulé, Christophe *see* **Gillet, Henri, 2000a:58086**
Verbitsky, Mikhail Deformations of trianalytic subvarieties of hyper-Kähler manifolds. (English summary) **2000h:32015**

32L15 Bundle convexity [see also 32F10]

Items with secondary classifications in 32L15

Pinney Mortensen, Karen Vanishing of cohomology for L-convex domains. (English summary) **2000m:32031**

32L20 Vanishing theorems

de Cataldo, Mark Andrea A. Singular Hermitian metrics on vector bundles. (English summary) **2000c:32067**

Darko, Patrick W. Vanishing theorems on manifolds with piecewise strictly pseudoconvex boundaries. (English summary) **2000c:32068**
Mourougane, Christophe Versions kählériennes du théorème d'annulation de Bogomolov. (English summary) [Kählerian versions of the Bogomolov vanishing theorem] **2000b:32044**
— Théorèmes d'annulation générique pour les fibrés vectoriels semi-négatifs. (English and French summaries) [Generic vanishing theorems for seminegative vector bundles] **2000f:32031**
Ni, Lei Vanishing theorems on complete Kähler manifolds and their applications. **2000c:32069**
Pinney Mortensen, Karen Vanishing of cohomology for L-convex domains. (English summary) **2000m:32031**
Takegoshi, Kensho Torsion freeness theorems for higher direct images of canonical sheaves by a certain convex Kähler morphism. **2000a:32044**

Items with secondary classifications in 32L20

Bonavero, Laurent Inégalités de morse holomorphes singulières. (English summary) [Singular holomorphic Morse inequalities] **2000k:32020**
Eyssidieux, Philippe Systèmes linéaires adjoints L^2. (English and French summaries) [L^2 adjoint linear systems] **2000d:32036**
Kim, Meeyoung (*with* Manivel, Laurent) On branched coverings of some homogeneous spaces. (English summary) **2000c:14020**
Manivel, Laurent *see* **Kim, Meeyoung, 2000c:14020**
Takayama, Shigeharu The Levi problem and the structure theorem for non-negatively curved complete Kähler manifolds. **2000d:32041**

32L25 Twistor theory, double fibrations [see also 53C28]

Campana, Frédéric (*with* Kreußler, B.) Existence of twistor spaces of algebraic dimension two over the connected sum of four complex projective planes. (English summary) **2000c:32070**
D'Agnolo, Andrea (*with* Schapira, Pierre) The Radon-Penrose correspondence. II. Line bundles and simple $\mathscr{D}$-modules. (English summary) **2000e:32030**
Eastwood, Michael Some examples of the Penrose transform. **2000e:32031**
Gindikin, Simon G. SO(1; n)-twistors. (English summary) **2000a:32045**
Honda, Nobuhiro (*with* Itoh, Mitsuhiro) A Kummer type construction of self-dual metrics on the connected sum of four complex projective planes. (English summary) **2000k:32021**
Huggett, Stephen A. (*with* Merkulov, Sergei) Twistor transform of vector bundles. **2000i:32036**
Itoh, Mitsuhiro *see* **Honda, Nobuhiro, 2000k:32021**
Kreußler, B. *see* **Campana, Frédéric, 2000c:32070**
Merkulov, Sergei *see* **Huggett, Stephen A., 2000i:32036**
Penrose, Roger Twistor geometry of light rays. (English summary) **2000e:32032**
Schapira, Pierre *see* **D'Agnolo, Andrea, 2000e:32030**
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Tsai, Cheng-Chih The Penrose transform for the space of null geodesics of a complex conformal 3-manifold. (English summary) **2000a:32046**

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Cardoso, J. G. General techniques for evaluating twistor diagrams. (English summary) **2000c:81115a**
— Erratum: "General techniques for evaluating twistor diagrams". **2000c:81115b**
D'Agnolo, Andrea (*with* Schapira, Pierre) Kernel calculus and extension of contact transformations to $\mathscr{D}$-modules. **2000d:32013**
— Radon transform and the Cavalieri condition: a cohomological approach. **2000d:58035**
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Honda, Nobuhiro Donaldson-Friedman construction and deformations of a triple of compact complex spaces. **2000m:32022**
Kreußler, B. *see* **Campana, Frédéric, 2000d:32033**
Kurke, Herbert (*with* Matuschke, Andreas) On the structure of moduli spaces of framed vector bundles on rational and ruled surfaces. (English summary) **2000i:14062**
LeBrun, Claude Topology versus Chern numbers for complex 3-folds. (English summary) **2000h:32023**
Matuschke, Andreas *see* **Kurke, Herbert, 2000i:14062**
Pedersen, Henrik (*with* Poon, Yat Sun) Connected sums of self-dual manifolds and equivariant relative smoothings. (English summary) **2000j:32031**
Poon, Yat Sun *see* **Pedersen, Henrik, 2000j:32031**
Schapira, Pierre *see* **D'Agnolo, Andrea, 2000d:32013**
Verbitsky, Mikhail Hypercomplex varieties. (English summary) **2000m:32029**

32L81 Applications to physics

Items with secondary classifications in 32L81

Minasian, Ruben (*with* Moore, Gregory W.) K-theory and Ramond-Ramond charge. (English summary) **2000a:81190**
Moore, Gregory W. *see* **Minasian, Ruben, 2000a:81190**
Popov, A. D. Holomorphic Chern-Simons-Witten theory: from 2D to 4D conformal field theories. (English summary) **2000k:32013**

32L99 None of the above, but in this section

Items with secondary classifications in 32L99

Smith, Ivan Lefschetz fibrations and the Hodge bundle. (English summary) **2000j:57059**

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups acting on complex spaces [see also 22E10]

Andersén, Erik Complete vector fields on $(\mathbf{C}^*)^n$. (English summary) **2000i:32037**
Birkenhake, Ch. (*with* González-Aguilera, Víctor; Lange, Herbert) Automorphism groups of 3-dimensional complex tori. (English summary) **2000c:32071**
Derksen, Harm (*with* Kutzschebauch, Frank) Global holomorphic linearization of actions of compact Lie groups on $\mathbf{C}^n$. **2000a:32047**
González-Aguilera, Víctor *see* **Birkenhake, Ch. et al., 2000c:32071**
Hausen, Jürgen (*with* Heinzner, Peter) Actions of compact groups on coherent sheaves. (English summary) **2000a:32048**
Heinzner, Peter (*with* Migliorini, Luca; Polito, Marzia) Semistable quotients. **2000g:32024**
— *see also* **Hausen, Jürgen, 2000a:32048**
Hundemer, Axel A characterization of products of balls by their isotropy groups. (English summary) **2000h:32028**
Iannuzzi, Andrea Characterizations of G-tube domains. (English summary) **2000e:32034**
Kutzschebauch, Frank *see* **Derksen, Harm, 2000a:32047**
Lange, Herbert *see* **Birkenhake, Ch. et al., 2000c:32071**
Migliorini, Luca *see* **Heinzner, Peter et al., 2000g:32024**
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Shimizu, Satoru[1] Automorphisms and equivalence of tube domains with bounded base. **2000j:32034**
Zhou, Xiang Yu An invariant version of the Cartan lemma and complexifications of invariant domains of holomorphy. (Russian) **2000i:32038**

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Baran, Mirosław Conjugate norms in $\mathbf{C}^n$ and related geometrical problems. (English summary) **2000c:32086**
Brunella, Marco On the automorphism group of a complex sphere. (English summary) **2000f:32028**
Cheng, Jih-Hsin Rigidity of automorphisms and spherical CR structures. (English summary) **2000j:32058**
Ezhov, Vladimir V. (*with* Schmalz, Gerd) A matrix Poincaré formula for holomorphic automorphisms of quadrics of higher codimension. Real associative quadrics. (English summary) **2000e:32051**
Hwang, Jun-Muk (*with* Mok, Ngaiming) Characterization and deformation-rigidity of compact irreducible Hermitian symmetric spaces of rank ≥ 2 among Fano manifolds. **2000h:53036**
Isaev, Alexander V. (*with* Krantz, Steven G.) Domains with non-compact automorphism group: a survey. (English summary) **2000i:32053**
Krantz, Steven G. *see* **Isaev, Alexander V., 2000i:32053**
Krötz, Bernhard Equivariant embeddings of Stein domains sitting inside of complex semigroups. (English summary) **2000f:32006**
Mihailescu, Eugen Stelian Periodic points for actions of tori in Stein manifolds. **2000e:32026**
Mok, Ngaiming *see* **Hwang, Jun-Muk, 2000h:53036**
Oeljeklaus, Karl (*with* Youssfi, E. H.) Proper holomorphic mappings and related automorphism groups. (English summary) **2000b:32037**
Peetre, Jaak (*with* Zhang, Genkai) Invariant Cauchy-Riemann operators and relative discrete series of line bundles over the unit ball of $\mathbf{C}^d$. **2000a:43010**
Schmalz, Gerd *see* **Ezhov, Vladimir V., 2000e:32051**
Spiro, Andrea F. Groups acting transitively on compact CR manifolds of hypersurface type. (English summary) **2000i:32063**
Youssfi, E. H. *see* **Oeljeklaus, Karl, 2000b:32037**
Zhang, Genkai *see* **Peetre, Jaak, 2000a:43010**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Dimou, G. E. (*with* Tsagas, Grigorios T.) On the classification of non-symmetric homogeneous bounded domains in six-dimensional complex space $\mathbf{C}^6$. **2000b:32045**
Hundemer, Axel The isotropy groups of bounded homogeneous domains are nontrivial. (English summary) **2000f:32032**
Ishi, Hideyuki Orbit decomposition for closures of general homogeneous cones and the positivity of Riesz hyperfunctions. (Japanese) (*see* **2000b:53002**)
— Representations of the affine transformation groups acting simply transitively on Siegel domains. (English summary) **2000m:32032**
Kaneyuki, Soji Para-Kähler homogeneous spaces and dipolarizations of Lie algebras. (Japanese) (*see* **2000b:53002**)
Ramani, Vimala (*with* Sankaran, Parameswaran) Dolbeault cohomology of compact complex homogeneous manifolds. (English summary) **2000d:32039**
Sankaran, Parameswaran *see* **Ramani, Vimala, 2000d:32039**
Tsagas, Grigorios T. *see* **Dimou, G. E., 2000b:32045**

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Chuah, Meng-Kiat (*with* Teo, Lee-Peng) Dolbeault cohomology of $G/(P, P)$. (English summary) **2000c:22010**
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32M15 Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras [see also 22E10, 22E40, 53C35, 57T15]

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32M17 Automorphism groups of $\mathbf{C}^n$ and affine manifolds

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32M99 None of the above, but in this section

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32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N10 Automorphic forms

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32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)

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32Qxx Complex manifolds

32Q05 Negative curvature manifolds

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32Q15 Kähler manifolds

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Bismut, Jean-Michel (*with* Goette, Sebastian) Torsions analytiques équivariantes holomorphes. (English and French summaries) [Holomorphic equivariant analytic torsions] **2000i:58057**

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— Quotients résolubles des groupes de Kähler et ensembles de Green-Lazarsfeld. (English and French summaries) [Solvable quotients of Kähler groups and Green-Lazarsfeld loci] **2000h:32025**

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Foth, Philip A. Logarithmic forms with twisted coefficients. (English summary) **2000b:32041**

— *see also* **Brylinski, Jean-Luc**, **2000b:32029**

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32Q20 Kähler-Einstein manifolds [see also 53Cxx]

Bandō, Shigetoshi The existence problem for Einstein-Kähler metrics in the case of positive scalar curvature. (Japanese) **2000g:32028**

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Li, Jia Yu[1] (*with* Narasimhan, M. S.) Hermitian-Einstein metrics on parabolic stable bundles. (English summary) **2000j:32040**

Lu, Zhiqin On the Futaki invariants of complete intersections. **2000h:32033**

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Nakagawa, Yasuhiro Bando-Calabi-Futaki characters of Kähler orbifolds. **2000g:53047**

Seimiya, Ken-ichi Kobayashi-Hitchin correspondence for perturbed Seiberg-Witten equations. **2000b:32046**

Todorov, Andreĭ Nikolov *see* **Jorgenson, Jay**, **2000e:14054**

Verbitsky, Mikhail Mirror symmetry for hyper-Kähler manifolds. (English summary) **2000a:53084**

32Q25 Calabi-Yau theory

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Gross, Mark Connecting the web: a prognosis. **2000a:32052**

Hitchin, Nigel J. The moduli space of special Lagrangian submanifolds. **2000c:32075**

Kobayashi, Masanori A special Lagrangian 3-torus as a real slice. (English summary) **2000a:32053**

Items with secondary classifications in 32Q25

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Katz, Sheldon H. *see* **Cox, David A.**, **2000d:14048**

32Q28 Stein manifolds

Nemirovskiĭ, S. Yu. Holomorphic functions and embedded real surfaces. (Russian. Russian summary) **2000h:32035**

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32Q35 Complex manifolds as subdomains of Euclidean space

Černe, Miran Analytic discs attached from the outside have knotted boundaries. (English summary) **2000m:32034**

32Q45 Hyperbolic and Kobayashi hyperbolic manifolds

Apanasov, B. Geometry and topology of complex hyperbolic manifolds and Cauchy-Riemann manifolds. (Russian) **2000f:32034**

Falbel, Elisha (*with* Zocca, Valentino) A Poincaré's polyhedron theorem for complex hyperbolic geometry. (English summary) **2000k:32023**

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McQuillan, M. Holomorphic curves on hyperplane sections of 3-folds. (English summary) **2000f:32035**

Nayatani, Shin Discrete groups of complex hyperbolic isometries and pseudo-Hermitian structures. (English summary) **2000d:32044**
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Duc, Pham Viet *see* **Do Duc Thai, 2000i:32019**
de Fabritiis, Chiara (*with* Gentili, Graziano) On holomorphic maps which commute with hyperbolic automorphisms. **2000c:32052**
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Hu, Pei Chu (*with* Yang, Chung-Chun) On fixed points and factorization of meromorphic mappings. (English summary) **2000b:32034**
Hwang, Jun-Muk (*with* To, Wing-Keung) On Seshadri constants of canonical bundles of compact complex hyperbolic spaces. (English summary) **2000i:32034**
Joseph, James E. (*with* Kwack, Myung H.) A generalization of the Schwarz lemma to normal selfmaps of complex spaces. (English summary) **2000k:32016**
Kamishima, Yoshinobu Rigidity and nonrigidity of the geometric structure on the boundary of quaternionic (complex) hyperbolic space. **2000e:53049**
Kruglikov, Boris S. (*with* Overholt, Marius) Pseudoholomorphic mappings and Kobayashi hyperbolicity. (English summary) **2000j:32042**
— Existence of close pseudoholomorphic disks for almost complex manifolds and their application to the Kobayashi-Royden pseudonorm. (Russian. Russian summary) **2000i:32044**
Kwack, Myung H. *see* **Joseph, James E., 2000k:32016**
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Mihailescu, Eugen Stelian Periodic points for actions of tori in Stein manifolds. **2000e:32026**
Nishikawa, Seiki Homogeneous manifolds of negative curvature and harmonic maps. (*see* **2000k:00036**)
Noguchi, Junjiro On holomorphic curves in semi-abelian varieties. **2000a:32034**
Overholt, Marius *see* **Kruglikov, Boris S., 2000j:32042**
To, Wing-Keung *see* **Hwang, Jun-Muk, 2000i:32034**
Vigué, Jean-Pierre Sur les rétractes holomorphes de dimension 1. (English and Italian summaries) [On holomorphic retracts of dimension 1] **2000a:32024**
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32Q55 Topological aspects of complex manifolds

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32Q60 Almost complex manifolds

Dimiev, Stancho (*with* Frenkev, Dimitar; Spallek, Karlheinz) Remarks on some function theories on a class of almost complex manifolds. (English summary) **2000h:32037**
Frenkev, Dimitar *see* **Dimiev, Stancho et al., 2000h:32037**
Kruglikov, Boris S. Nijenhuis tensors and obstructions to the construction of pseudoholomorphic mappings. (Russian. Russian summary) **2000f:32036**
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Bohr, Christian Embedded surfaces and almost complex structures. (English summary) **2000m:57051**
Hofer, Helmut H. W. (*with* Lizan, Véronique; Sikorav, Jean-Claude) On genericity for holomorphic curves in four-dimensional almost-complex manifolds. (English summary) **2000d:32045**
Kruglikov, Boris S. Existence of close pseudoholomorphic disks for almost complex manifolds and their application to the Kobayashi-Royden pseudonorm. (Russian. Russian summary) **2000i:32044**
Lizan, Véronique *see* **Hofer, Helmut H. W. et al., 2000d:32045**
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32Q65 Pseudoholomorphic curves

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Hofer, Helmut H. W. (*with* Lizan, Véronique; Sikorav, Jean-Claude) On genericity for holomorphic curves in four-dimensional almost-complex manifolds. (English summary) **2000d:32045**
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Labourie, François Problèmes de Monge-Ampère, courbes pseudo-holomorphes. [Monge-Ampère problems, pseudoholomorphic curves] **2000i:53056**
Mo, Xiaohuan New characterization of pseudo-holomorphic curves in $\mathbf{CP}^n$ in terms of the A_n-Toda equations. (English and Chinese summaries) **2000c:53082**
Parker, Thomas H. Compactified moduli spaces of pseudo-holomorphic curves. (English summary) **2000d:53138**

32Q99 None of the above, but in this section

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32Sxx Singularities [see also 58Kxx]

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(Bruce, J. W.) *see* **Real and complex singularities, 2000e:58002**
(Mond, David) *see* **Singularity theory, 2000c:32002**
(Tari, F.) *see* **Real and complex singularities, 2000e:58002**
(Wall, Charles T. C.) *see* **Singularity theory, 2000c:32002**

Items listed otherwise than by author

Birthday:
Wall, Charles T. C. ★Singularity theory. **2000c:32002**
Conference:
Singularities ★Singularity theory. **2000c:32002**
Liverpool ★Singularity theory. **2000c:32002**
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32S05 Local singularities [see also 14J17]

Bogusławska, Monika On the Łojasiewicz exponent of the gradient of holomorphic functions. (English summary) **2000k:32024**
Caubel, Clément Sur la topologie d'une famille de pinceaux de germes d'hypersurfaces complexes. (English and French summaries) [On the topology of a family of pencils of germs of complex hypersurfaces] **2000b:32047**
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Lenarcik, Andrzej On the Łojasiewicz exponent of the gradient of a holomorphic function. (English summary) **2000h:32039**
Maugendre, Hélène Discriminant of a germ $\Phi\colon (\mathbf{C}^2, 0) \to (\mathbf{C}^2, 0)$ and Seifert fibred manifolds. (English summary) **2000c:32077**
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Durfee, Alan H. Five definitions of critical point at infinity. (English summary) **2000a:32054**
Fukui, Toshizumi (*with* Weyman, Jerzy) Cohen-Macaulay properties of Thom-Boardman strata. I. Morin's ideal. **2000j:58062**
Givental, Alexander Elliptic Gromov-Witten invariants and the generalized mirror conjecture. (English summary) **2000b:14074**
Holland, Martin P. (*with* Mond, David) Stable mappings and logarithmic relative symplectic forms. (English summary) **2000f:32040**
Marar, W. L. (*with* Montaldi, J. A.; Ruas, Maria Aparecida Soares) Multiplicities of zero-schemes in quasihomogeneous corank-1 singularities $\mathbf{C}^n \to \mathbf{C}^n$. (English summary) **2000m:32038**
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Mond, David *see* **Holland, Martin P., 2000f:32040**
Montaldi, J. A. *see* **Marar, W. L. et al., 2000m:32038**

Peraire, Rosa *see* **Casas-Alvero, Eduardo, 2000j:14004**
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Zaharia, Alexandru Characterizations of simple isolated line singularities. (English summary) **2000j:58063**
Zaharia, Maria Ioachim Function germs defined on the arrangement of coordinate hyperplanes. **2000h:58071**

32S10 Invariants of analytic local rings

Kuo, T.-C. (*with* Parusiński, Adam) Newton polygon relative to an arc. **2000j:32043**
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Wall, Charles T. C. Newton polytopes and non-degeneracy. **2000g:32032**

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Yau, Stephen Shing Toung *see* **Luk, Hing Sun, 2000d:32054**
Zaharia, Maria Ioachim Function germs defined on the arrangement of coordinate hyperplanes. **2000h:58071**

32S15 Equisingularity (topological and analytic) [see also 14E15]

Durfee, Alan H. Five definitions of critical point at infinity. (English summary) **2000a:32054**
Gaffney, Terence (*with* Massey, David) Trends in equisingularity theory. (English summary) **2000f:32038**
— (*with* Kleiman, Steven L.) Specialization of integral dependence for modules. (English summary) **2000k:32025**
— (*with* Gassler, Robert) Segre numbers and hypersurface singularities. (English summary) **2000i:32045**
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Hà Huy Vui (*with* Pham Tien Son) Topology of families of affine plane curves. (English summary) **2000j:32044**
Hertling, Claus (*with* Stahlke, Colin) Bernstein polynomial and Tjurina number. (English summary) **2000c:32078**
Kang, Chunghyuk Analytic types of plane curve singularities defined by weighted homogeneous polynomials. (English summary) **2000m:32035**
Kang, Seungpil Analytic types of the surface singularities defined by some weighted homogeneous polynomials. (English summary) **2000k:32026**
Kleiman, Steven L. Equisingularity, multiplicity, and dependence. (English summary) **2000g:32033**
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Massey, David *see* **Gaffney, Terence, 2000f:32038**
Pham Tien Son *see* **Hà Huy Vui, 2000j:32044**
Saia, Marcelo José The integral closure of ideals and Whitney equisingularity of germs of hypersurfaces. (English and Portuguese summaries) **2000b:32048**
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Jaworski, Piotr On blowing up versal discriminants. (English summary) **2000a:32059**
Kleiman, Steven L. *see* **Gaffney, Terence, 2000f:58083**
Perron, B. (*with* Shalen, Peter B.) Homeomorphic graph manifolds: a contribution to the μ constant problem. (English summary) **2000i:57034**
Shalen, Peter B. *see* **Perron, B., 2000i:57034**

32S20 Global theory of singularities; cohomological properties [see also 14E15]

Ancona, Vincenzo (*with* Gaveau, Bernard) Théorie de Hodge et complexes de de Rham holomorphes pour certains espaces analytiques. I. (English and French summaries) [Hodge theory and holomorphic de Rham complexes for certain analytic spaces. I] **2000b:32049**
— (*with* Gaveau, Bernard) Théorie de Hodge et complexes de de Rham de certains espaces analytiques. II. Calculs explicites pour la quadrique singulière. (English and French summaries) [Hodge theory and de Rham complexes of certain analytic spaces. II. Explicit calculations for the singular quadric] **2000b:32050**
Cassou-Noguès, Pierrette (*with* Dimca, Alexandru) Topology of complex polynomials via polar curves. **2000a:32055**
Dimca, Alexandru *see* **Cassou-Noguès, Pierrette, 2000a:32055**
Gaveau, Bernard *see* **Ancona, Vincenzo, 2000b:32049** *and* **2000b:32050**
Holland, Martin P. (*with* Mond, David) Logarithmic differential forms and the cohomology of the complement of a divisor. **2000c:32079**
Mond, David *see* **Holland, Martin P., 2000c:32079**
Napolitano, Fabien Discriminant and bifurcation diagram of complex trigonometric polynomials. (English and French summaries) **2000c:32080**

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Dimca, Alexandru Invariant cycles for complex polynomials. **2000a:32061**
Eyral, Christophe Sur l'homotopie des espaces stratifiés. (French summary) [On the homotopy of stratified spaces] **2000f:57029**
Le Van Thanh An affine algebraic type of the Plücker-Milnor formula on $\mathbf{C}^2$. (English summary) **2000e:14099**
Oka, Mutsuo[1] Note on flex curves and their applications. **2000b:14032**

32S22 Relations with arrangements of hyperplanes [see also 52C35]

Cohen, Daniel C. (*with* Suciu, Alexander I.) Characteristic varieties of arrangements. (English summary) **2000m:32036**
Damon, James Critical points of affine multiforms on the complements of arrangements. (English summary) **2000m:32037**
Markov, Yavor (*with* Tarasov, V. O.; Varchenko, A. N.) The determinant of a hypergeometric period matrix. (English summary) **2000d:32047**
Matsumoto, Keiji Intersection numbers for logarithmic k-forms. **2000b:32051**
Silvotti, Roberto A factorization property of cohomology of the complement of a braid-type arrangement. **2000j:32045**
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Nguyễn Việt Dũng[1] Braid monodromy of complex line arrangements. (English summary) **2000e:14039**

32S25 Surface and hypersurface singularities [see also 14J17]

Campillo, Antonio *see* **Gusein-Zade, S. M. et al., 2000c:32081**
Delgado de la Mata, Félix *see* **Gusein-Zade, S. M. et al., 2000c:32081**
Gusein-Zade, S. M. (*with* Delgado de la Mata, Félix; Campillo, Antonio) Extended semigroup of a plane curve singularity. (Russian) **2000c:32081**
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Jeddi, A. (*with* Mardhy, A.) Pôles de $\int_A f^{\prime}\bullet$ pour une singularité presque isolée. (English summary) [Poles of $\int_A f^{\prime}\bullet$ for an almost isolated singularity] **2000a:32056**
Jiang, Guang Feng (*with* Siersma, D.) Local embeddings of lines in singular hypersurfaces. (English and French summaries) **2000g:32034**
Mardhy, A. *see* **Jeddi, A., 2000a:32056**
Némethi, András "Weakly" elliptic Gorenstein singularities of surfaces. **2000e:32037**
— Dedekind sums and the signature of $f(x, y) + z^N$. II. **2000f:32039**
Noumi, Masatoshi (*with* Yamada, Yasuhiko) Notes on the flat structures associated with simple and simply elliptic singularities. (English summary) **2000b:32052**
Shubladze, M. Isolated hypersurface singularities of the transversal type A_1. (English summary) **2000a:32057**
Siersma, D. *see* **Jiang, Guang Feng, 2000g:32034**
Weber, Andrzej Leray residue for singular varieties. **2000a:32058**
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Caubel, Clément Sur la topologie d'une famille de pinceaux de germes d'hypersurfaces complexes. (English and French summaries) [On the topology of a family of pencils of germs of complex hypersurfaces] **2000b:32047**
Dimca, Alexandru *see* **Cassou-Noguès, Pierrette, 2000a:32055**
Douai, Antoine Très bonnes bases du réseau de Brieskorn d'un polynôme modéré. (English and French summaries) [Very good bases of the Brieskorn lattice of a tame polynomial] **2000k:32028**
Gaffney, Terence (*with* Gassler, Robert) Segre numbers and hypersurface singularities. (English summary) **2000i:32045**
Gassler, Robert *see* **Gaffney, Terence, 2000i:32045**
Hertling, Claus Classifying spaces for polarized mixed Hodge structures and for Brieskorn lattices. (English summary) **2000d:32048**
Holland, Martin P. (*with* Mond, David) Logarithmic differential forms and the cohomology of the complement of a divisor. **2000c:32079**
Jaworski, Piotr On blowing up versal discriminants. (English summary) **2000a:32059**
Mond, David *see* **Holland, Martin P., 2000c:32079**
Müller, Gerd Symmetries of surface singularities. **2000m:14039**
Napolitano, Fabien Pseudo-homology of complex hypersurfaces. (English and French summaries) **2000g:32035**
Sabbah, Claude Hypergeometric period for a tame polynomial. (English and French summaries) **2000b:32053**
Shustin, Evgenii Lower deformations of isolated hypersurface singularities. (English summary) **2000m:32039**
Wajnryb, Bronisław Artin groups and geometric monodromy. **2000j:57003**

32S30 Deformations of singularities; vanishing cycles [see also 14B07]

Holland, Martin P. (*with* Mond, David) Stable mappings and logarithmic relative symplectic forms. (English summary) **2000f:32040**
Jaworski, Piotr On blowing up versal discriminants. (English summary) **2000a:32059**
Marar, W. L. (*with* Montaldi, J. A.; Ruas, Maria Aparecida Soares) Multiplicities of zero-schemes in quasihomogeneous corank-1 singularities $\mathbf{C}^n \to \mathbf{C}^n$. (English summary) **2000m:32038**
Miyajima, Kimio CR construction of the flat deformations of normal isolated singularities. (English summary) **2000j:32046**
Mond, David *see* **Holland, Martin P., 2000f:32040**

Montaldi, J. A. *see* **Marar, W. L. et al., 2000m:32038**
Némethi, András (*with* Sabbah, Claude) Semicontinuity of the spectrum at infinity. (English summary) **2000j:32047**
Ruas, Maria Aparecida Soares *see* **Marar, W. L. et al., 2000m:32038**
Sabbah, Claude *see* **Némethi, András, 2000j:32047**
Shcherbak, I. G. (*with* Szpirglas, Aviva) Lagrange transformations and duality for corner and flag singularities. (English summary) **2000k:32027**
Shustin, Evgenii Lower deformations of isolated hypersurface singularities. (English summary) **2000m:32039**
Szpirglas, Aviva *see* **Shcherbak, I. G., 2000k:32027**
Urabe, Tohsuke Dynkin graphs, Gabrièlov graphs and triangle singularities. (English summary) **2000f:32041**

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Gorodentsev, A. (*with* Shapiro, Boris Z.) On associated discriminants for polynomials in one variable. (English summary) **2000d:58058**
Houston, Kevin (*with* Kirk, Neil) On the classification and geometry of corank 1 map-germs from three-space to four-space. (English summary) **2000h:58068**
Kirk, Neil *see* **Houston, Kevin, 2000h:58068**
Noumi, Masatoshi (*with* Yamada, Yasuhiko) Notes on the flat structures associated with simple and simply elliptic singularities. (English summary) **2000b:32052**
Okuma, Tomohiro On $-P \cdot P$ of surface singularities. **2000e:14056**
Shapiro, Boris Z. *see* **Gorodentsev, A., 2000d:58058**
Yamada, Yasuhiko *see* **Noumi, Masatoshi, 2000b:32052**

32S35 Mixed Hodge theory of singular varieties [see also 14C30, 14D07]

Hertling, Claus Classifying spaces for polarized mixed Hodge structures and for Brieskorn lattices. (English summary) **2000d:32048**
Steenbrink, J. H. M. Spectra of $\mathscr{K}$-unimodal isolated singularities of complete intersections. (English summary) **2000e:32038**

Items with secondary classifications in 32S35

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— (*with* Gaveau, Bernard) Théorie de Hodge et complexes de de Rham de certains espaces analytiques. II. Calculs explicites pour la quadrique singulière. (English and French summaries) [Hodge theory and de Rham complexes of certain analytic spaces. II. Explicit calculations for the singular quadric] **2000b:32050**
(Bloch, Spencer) *see* **Consani, Caterina, 2000e:14008**
Consani, Caterina The local monodromy as a generalized algebraic correspondence. (English summary) **2000e:14008**
Denef, Jan (*with* Loeser, François) Motivic exponential integrals and a motivic Thom-Sebastiani theorem. **2000k:14006**
García López, R. (*with* Némethi, András) On the monodromy at infinity of a polynomial map. II. (English summary) **2000a:32062**
Gaveau, Bernard *see* **Ancona, Vincenzo, 2000b:32049** *and* **2000b:32050**
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Némethi, András *see* **García López, R., 2000a:32062**
Tibăr, Mihai Embedding nonisolated singularities into isolated singularities. **2000j:32051**

32S40 Monodromy; relations with differential equations and D-modules

Aleksandrov, Aleksandr G. Gauss-Manin connexion of curve singularities. (English summary) **2000e:32039**
Aomoto, Kazuhiko (*with* Iguchi, Kazumoto) The 2-dimensional Wu equation and singularities of quasihypergeometric functions. (Japanese) (*see* **2000m:00041**)
— Errata to: "Configurations and invariant Gauss-Manin connections of integrals. I" [Tokyo J. Math. **5** (1982), no. 2, 249–287; MR 85k:32022].
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Briançon, J. (*with* Maynadier, H.) Équations fonctionnelles généralisées: transversalité et principalité de l'idéal de Bernstein-Sato. [Generalized functional equations: transversality and principalness of the Bernstein-Sato ideal] **2000h:32041**
da Costa Gomes, Elizabeth F. Solutions of the equation $f_y u_x - f_x u_y = g$. (English and French summaries) **2000a:32060**
Dimca, Alexandru Invariant cycles for complex polynomials. **2000a:32061**
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(Ebeling, Wolfgang) *see* **Vassiliev, V. A., 2000b:32054**
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Guseĭn-Zade, S. M. (*with* Luengo, Ignacio; Melle-Hernández, Alejandro) On atypical values and local monodromies of meromorphic functions. (Russian. Russian summary) **2000h:32042**
Iguchi, Kazumoto *see* **Aomoto, Kazuhiko, (2000m:00041)**
Lê Dũng Tráng Morsification of $\mathscr{D}$-modules. (English summary) **2000a:32063**
Luengo, Ignacio *see* **Guseĭn-Zade, S. M. et al., 2000h:32042**
Maaref, Fayçal Sur un analogue irrégulier de la connexion de Gauss-Manin. (English and French summaries) [An irregular analogue of the Gauss-Manin connection] **2000j:32049**
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Sabbah, Claude Hypergeometric period for a tame polynomial. (English and French summaries) **2000b:32053**
Tanabé, Susumu[1] On geometry of fronts in wave propagations. (English summary) **2000m:32040**
Tibăr, Mihai Monodromy of functions on isolated cyclic quotients. (English summary) **2000i:32046**
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Delgado de la Mata, Félix *see* **Guseĭn-Zade, S. M. et al., 2000c:32081**;**2000f:32042** *and* **2000h:32043**
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— (*with* Delgado de la Mata, Félix; Campillo, Antonio) The Alexander polynomial of a plane curve singularity, and the ring of functions on the curve. (Russian) **2000h:32043**
Hertling, Claus (*with* Stahlke, Colin) Bernstein polynomial and Tjurina number. (English summary) **2000c:32078**
Kimura, Hironobu (*with* Taneda, Makoto) Analogue of flat basis and cohomological intersection numbers for general hypergeometric functions. (English summary) **2000i:33020**
Matsumoto, Keiji Intersection numbers for 1-forms associated with confluent hypergeometric functions. **2000a:33002**
Saito, Mutsumi (*with* Sturmfels, Bernd; Takayama, Nobuki) Gröbner deformations of regular holonomic systems. **2000f:13056**
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Takayama, Nobuki *see* **Saito, Mutsumi et al., 2000f:13056**
Taneda, Makoto *see* **Kimura, Hironobu, 2000i:33020**
Tibăr, Mihai Embedding nonisolated singularities into isolated singularities. **2000j:32051**

32S45 Modifications; resolution of singularities [see also 14E15]

Maugendre, Hélène Discriminant d'un germe $(g, f)\colon (\mathbf{C}^2, 0) \to (\mathbf{C}^2, 0)$ et quotients de contact dans la résolution de $f \cdot g$. (English and French summaries) [Discriminant of a germ $(g, f)\colon (\mathbf{C}^2, 0) \to (\mathbf{C}^2, 0)$ and contact quotients in the resolution of $f \cdot g$] **2000a:32064**
Okuma, Tomohiro The second plurigenus of surface singularities. **2000a:32065**
Tsuchihashi, Hiroyasu Galois covering singularities. I. (English summary) **2000a:32066**

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Greene, Brian R. (*with* Lazaroiu, C. I.; Yi, Piljin) D-particles on T^4/Z_n orbifolds and their resolutions. (English summary) **2000c:81257**
Hirzebruch, Friedrich Complex cobordism and the elliptic genus. (English summary) **2000h:58049**
(Langer, Adrian) *see* **Hirzebruch, Friedrich, 2000h:58049**
Lazaroiu, C. I. *see* **Greene, Brian R. et al., 2000c:81257**
Némethi, András "Weakly" elliptic Gorenstein singularities of surfaces. **2000e:32037**
Penati, Silvia (*with* Santambrogio, Alberto; Zanon, Daniela) Non-transversal colliding singularities in F-theory. (English summary) **2000h:81255**
Santambrogio, Alberto *see* **Penati, Silvia et al., 2000h:81255**
Stark, C. W. Blowup and fixed points. (English summary) **2000k:57024**
Tibăr, Mihai Monodromy of functions on isolated cyclic quotients. (English summary) **2000i:32046**
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Veys, Willem The topological zeta function associated to a function on a normal surface germ. (English summary) **2000h:14027**
Yi, Piljin *see* **Greene, Brian R. et al., 2000c:81257**
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32S50 Topological aspects: Lefschetz theorems, topological classification, invariants

Lehmann, Daniel Milnor numbers for locally complete intersections with non-isolated singularities. **2000a:32067**
Napolitano, Fabien Pseudo-homology of complex hypersurfaces. (English and French summaries) **2000g:32035**
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32S55 Milnor fibration; relations with knot theory [see also 57M25, 57Q45]

Campillo, Antonio *see* **Guseĭn-Zade, S. M. et al., 2000f:32042** *and* **2000h:32043**
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32S60 Stratifications; constructible sheaves; intersection cohomology [see also 58Kxx]

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32S65 Singularities of holomorphic vector fields and foliations

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32S70 Other operations on singularities

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32Txx Pseudoconvex domains

32T05 Domains of holomorphy

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32T15 Strongly pseudoconvex domains

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32T25 Finite type domains

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Items with secondary classifications in 32T25

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Tiao, Chieh-Hsien The Bergman kernel on monomial polyhedra. **2000a:32008**

32T27 Geometric and analytic invariants on weakly pseudoconvex boundaries

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Shaw, Mei-Chi *see* **Michel, Joachim, 2000b:32061**

32T35 Exhaustion functions

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Diederich, Klas *see* **Colţoiu, Mihnea, 2000e:32042**
Ohsawa, Takeo (*with* Sibony, Nessim) Bounded p.s.h. functions and pseudoconvexity in Kähler manifold. (English summary) **2000b:32062**
Sibony, Nessim *see* **Ohsawa, Takeo, 2000b:32062**

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32T40 Peak functions

Items with secondary classifications in 32T40

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32T99 None of the above, but in this section

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32Uxx Pluripotential theory

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32U05 Plurisubharmonic functions and generalizations [see also 31C10]

Aĭzenberg, L. A. (*with* Liflyand, Elijah) Mean-value characterization of holomorphic and pluriharmonic functions. II. (English summary) **2000i:32054**
Baran, Mirosław Homogeneous extremal function for a ball in $\mathbf{R}^2$. (English summary) **2000g:32038**
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Brudnyi, Alexander Local inequalities for plurisubharmonic functions. (English summary) **2000d:32049**
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Ahern, Patrick (*with* Flores, Manuel; Rosay, Jean Pierre) On $\mathbf{R}^+$ and $\mathbf{C}$ complete holomorphic vector fields. (English summary) **2000m:32033**

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Coupet, Bernard *see* **Chirka, E. M. et al., 2000f:32022**

Dwilewicz, Roman Pseudoconvexity and analytic discs. (English summary) **2000j:32055**

Flores, Manuel *see* **Ahern, Patrick et al., 2000m:32033**

Henne, Benedikt ★ Nevanlinnaklassen in nichtglatten streng pseudokonvexen Bereichen. (German) [Nevanlinna classes in nonsmooth strictly pseudoconvex domains] **2000a:32004**

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Khabibullin, B. N. The Paley problem for plurisubharmonic functions of finite lower order. (Russian. Russian summary) **2000h:32004**

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32U10 Plurisubharmonic exhaustion functions

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Pflug, Peter *see* **Błocki, Zbigniew, 2000b:32065**

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32U15 General pluripotential theory

Baran, Mirosław Conjugate norms in $\mathbf{C}^n$ and related geometrical problems. (English summary) **2000c:32086**

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Calvi, Jean-Paul *see* **Bloom, Thomas, 2000i:32056**

Ishii, Yutaka Recent results of Bedford and Smillie concerning complex dynamical systems on $\mathbf{C}^2$. (Japanese. English summary) **2000c:32063**

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Rashkovskiĭ, A. Yu. *see* **Lelong, Pierre, 2000b:32064**

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32U20 Capacity theory and generalizations

Bloom, Thomas (*with* Calvi, Jean-Paul) Sur le diamètre transfini en plusieurs variables. (English and French summaries) [On the multivariate transfinite diameter] **2000i:32056**

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Calvi, Jean-Paul *see* **Bloom, Thomas, 2000i:32056**

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32U25 Lelong numbers

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32U30 Removable sets

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32U40 Currents

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32Vxx CR manifolds

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32V05 CR structures, CR operators, and generalizations

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32V10 CR functions

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32V15 CR manifolds as boundaries of domains

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32V30 Embeddings of CR manifolds

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32Wxx Differential operators in several variables

32W05 $\overline{\partial}$ and $\overline{\partial}$-Neumann operators

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Affane, Atallah Formules de représentation intégrale pour les domaines de Cartan. (English summary) [Integral representation formulas for Cartan domains] **2000m:32009**
Andersson, Mats E. L. (*with* Boo, Jörgen; Ortega-Cerdà, Joaquim) Canonical homotopy operators for the $\overline{\partial}$ complex in strictly pseudoconvex domains. (English and French summaries) **2000a:32005**
Berndtsson, Bo Prekopa's theorem and Kiselman's minimum principle for plurisubharmonic functions. **2000a:32073**
Boo, Jörgen *see* **Andersson, Mats E. L. et al., 2000a:32005**
Chirka, E. M. (*with* Rosay, Jean Pierre) Remarks on the proof of a generalized Hartogs lemma. (English summary) **2000a:32071**
Diederich, Klas (*with* Fornæss, John Erik) Support functions for convex domains of finite type. **2000b:32024**
Fornæss, John Erik *see* **Diederich, Klas, 2000b:32024**
Hachaichi, Mohamed-Salah Formules de représentation intégrale et application à la résolution de l'équation de Cauchy-Riemann dans le disque unité généralisé de $M_n(\mathbf{C})$. (English, French and Arabic summaries) [Integral representation formulas and application to the solution of the Cauchy-Riemann equation in the generalized unit disk of $M_n(\mathbf{C})$] **2000d:32007**
Krantz, Steven G. (*with* Peloso, Marco M.) Sobolev spaces and projections of holomorphic functions and mappings. **2000e:32002**
Kytmanov, A. M. ★ Some applications of the Bochner-Martinelli integral. **2000k:32006**

Lü, Yong Jing (*with* Ma, Zhong Tai) L^s-norm estimates of solutions for the inhomogeneous Cauchy-Riemann equation. (English summary) **2000c:32013**
Ma, Zhong Tai *see* **Lü, Yong Jing, 2000c:32013**
Michel, Joachim (*with* Shaw, Mei-Chi) A decomposition problem on weakly pseudoconvex domains. **2000b:32061**
Ortega-Cerdà, Joaquim *see* **Andersson, Mats E. L. et al., 2000a:32005**
Peloso, Marco M. *see* **Krantz, Steven G., 2000e:32002**
Rosay, Jean Pierre *see* **Chirka, E. M., 2000a:32071**
Shaw, Mei-Chi *see* **Michel, Joachim, 2000b:32061**
Su, Jian Bing Extension of proper μ-holomorphic mappings. (English summary) **2000e:32023**
Takegoshi, Kensho Torsion freeness theorems for higher direct images of canonical sheaves by a certain convex Kähler morphism. **2000a:32044**

32W10 $\overline{\partial}_b$ and $\overline{\partial}_b$-Neumann operators

Laurent-Thiébaut, Christine (*with* Leiterer, Jürgen) Isomorphisme de Dolbeault dans les variétés CR. (English and French summaries) [Dolbeault isomorphism in CR manifolds] **2000a:32085**
Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2000a:32085**
Ma, Lan Boundary regularity for the local $\overline{\partial}_b$-complex on certain weakly pseudoconvex surfaces. (English summary) **2000e:32054**
— $\mathscr{C}^k$-regularity for the local $\overline{\partial}_b$-complex on some model hypersurfaces. **2000m:32047**

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Arai, Hitoshi Morrey spaces and applications to $\overline{\partial}_b$ and hypoelliptic pseudodifferential equations. (English summary) **2000c:35025**
Kamimoto, Joe On the singularities of non-analytic Szegő kernels. (English summary) **2000a:32007**
Michel, Joachim (*with* Shaw, Mei-Chi) $\overline{\partial}$ and $\overline{\partial}_b$ problems on nonsmooth domains. **2000d:32059**
— (*with* Shaw, Mei-Chi) A decomposition problem on weakly pseudoconvex domains. **2000b:32061**
Miyajima, Kimio A note on the closed rangeness of vector bundle valued tangential Cauchy-Riemann operator. (English summary) **2000e:32046**
Shaw, Mei-Chi *see* **Michel, Joachim, 2000b:32061** *and* **2000d:32059**

32W20 Complex Monge-Ampère operators

Andersson, Mats E. L. A Carleson estimate for the complex Monge-Ampère operator. (English summary) **2000b:32079**
Cherrier, Pascal (*with* Hanani, Abdellah) Le problème de Dirichlet pour des équations de Monge-Ampère complexes modifiées. (English summary) [The Dirichlet problem for modified complex Monge-Ampère equations] **2000b:32080**
Einstein-Matthews, Stanley M. Symplectic structures and symmetries of solutions of the complex Monge-Ampére equation. (English summary) **2000d:32061**
Guan, Bo The Dirichlet problem for complex Monge-Ampère equations and regularity of the pluri-complex Green function. **2000d:32062**
— A correction to: "The Dirichlet problem for complex Monge-Ampère equations and regularity of the pluri-complex Green function" [Comm. Anal. Geom. **6** (1998), no. 4, 687–703; MR 2000d:32062]. **2000k:32035**
Hanani, Abdellah *see* **Cherrier, Pascal, 2000b:32080**
Persson, Leif A Dirichlet principle for the complex Monge-Ampère operator. (English summary) **2000i:32065**
Rashkovskiĭ, A. Yu. Monge-Ampère operators and Jessen functions of holomorphic almost periodic mappings. (English, Russian and Ukrainian summaries) **2000b:32081**
Xing, Yang Complex Monge-Ampère equations with a countable number of singular points. (English summary) **2000i:32066**

Items with secondary classifications in 32W20

Hirachi, Kengo (*with* Komatsu, Gen; Nakazawa, Noriyuki) CR invariants of weight five in the Bergman kernel. (English summary) **2000i:32062**
Komatsu, Gen *see* **Hirachi, Kengo et al., 2000i:32062**
Lelong, Pierre (*with* Rashkovskiĭ, A. Yu.) Local indicators for plurisubharmonic functions. (English summary) **2000b:32064**
Molzon, Robert (*with* Pinney Mortensen, Karen) A characterization of complex projective space up to biholomorphic isometry. **2000d:32042**
Nakazawa, Noriyuki *see* **Hirachi, Kengo et al., 2000i:32062**
Pinney Mortensen, Karen *see* **Molzon, Robert, 2000d:32042**
Rashkovskiĭ, A. Yu. *see* **Lelong, Pierre, 2000b:32064**

32W50 Other partial differential equations of complex analysis

Palamodov, V. P. Holomorphic synthesis of monogenic functions of several quaternionic variables. (English summary) **2000i:32067**

Items with secondary classifications in 32W50

Begehr, Heinrich G. W. (*with* Dzhuraev, Abdukhamid Dzhuraevich) Overdetermined systems of second order elliptic equations in several complex variables. **2000k:35076**
Dzhuraev, Abdukhamid Dzhuraevich ★ Singular partial differential equations. (English summary) **2000j:35111**
— *see also* **Begehr, Heinrich G. W., 2000k:35076**
Garfield, Peter M. (*with* Lee, John M.) The Rumin complex on CR manifolds. (English summary) **2000a:32078**
Lee, John M. *see* **Garfield, Peter M., 2000a:32078**

33–XX Special functions {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx.}

33–01 Instructional exposition (textbooks, tutorial papers, etc.)

Andrews, George E. (*with* Askey, Richard A.; Roy, Ranjan) ★Special functions. (English summary) **2000g:33001**
Askey, Richard A. *see* **Andrews, George E. et al., 2000g:33001**
Roy, Ranjan *see* **Andrews, George E. et al., 2000g:33001**

Items with secondary classifications in 33–01

Abadir, Karim M. An introduction to hypergeometric functions for economists. (English summary)
Bressoud, David M. ★Proofs and confirmations. (English summary) **2000i:15002**
Stalker, John ★Complex analysis. (English summary) **2000c:30002**

33–02 Research exposition (monographs, survey articles)

Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) ★Orthogonal rational functions. (English summary) **2000c:33001**
González-Vera, Pablo *see* **Bultheel, Adhemar et al., 2000c:33001**
Hendriksen, Erik *see* **Bultheel, Adhemar et al., 2000c:33001**
Koepf, Wolfram ★Hypergeometric summation. (English summary) **2000c:33002**
Njåstad, Olav *see* **Bultheel, Adhemar et al., 2000c:33001**

Items with secondary classifications in 33–02

Andrews, George E. (*with* Askey, Richard A.; Roy, Ranjan) ★Special functions. (English summary) **2000g:33001**
Askey, Richard A. *see* **Andrews, George E. et al., 2000g:33001**
Barnard, Roger W. On applications of hypergeometric functions. (English summary) **2000d:33001**
Dunkl, Charles F. Orthogonal polynomials of types A and B and related Calogero models. (English summary) **2000a:33021**
Roy, Ranjan *see* **Andrews, George E. et al., 2000g:33001**

33–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 33–03

Agarwal, Ratan Prakash Fifty years of Ramanujan's mathematics in India.
Berndt, Bruce C. (*with* Ono, Ken) Ramanujan's unpublished manuscript on the partition and tau functions with proofs and commentary. **2000i:01027**
Gray, Jeremy J. ★Linear differential equations and group theory from Riemann to Poincaré. (English summary) **2000m:34002**
Ono, Ken *see* **Berndt, Bruce C., 2000i:01027**
(Ramanujan, Srinivasa Aiyangar) *see* **Berndt, Bruce C., 2000i:01027**

33–04 Explicit machine computation and programs (not the theory of computation or programming)

Garvan, Frank A q-product tutorial for a q-series MAPLE package. (English summary) **2000f:33001**

Items with secondary classifications in 33–04

Boros, George (*with* Moll, Victor H.) An integral with three parameters. (English summary) **2000h:33003**
Moll, Victor H. *see* **Boros, George, 2000h:33003**

33–06 Proceedings, conferences, collections, etc.

(Al-Salam, Waleed) *see* **Algebraic methods and q-special functions, 2000g:33002**
(Askey, Richard A.) *see* **Orthogonal polynomials and computer algebra, 2000k:33001**
(van Diejen, Jan Felipe) *see* **Algebraic methods and q-special functions, 2000g:33002**
(Koepf, Wolfram) *see* **Orthogonal polynomials and computer algebra, 2000k:33001**
(Koornwinder, Tom H.) *see* **Orthogonal polynomials and computer algebra, 2000k:33001**
(Vinet, Luc) *see* **Algebraic methods and q-special functions, 2000g:33002**

Items listed otherwise than by author

Algebraic methods and q-special functions ★Algebraic methods and q-special functions. **2000g:33002**
Montréal, QC ★Algebraic methods and q-special functions. **2000g:33002**
Orthogonal polynomials and computer algebra ★Orthogonal polynomials and computer algebra. **2000k:33001**
Special Issue:
  Orthogonal polynomials and computer algebra ★Orthogonal polynomials and computer algebra. **2000k:33001**
Workshop:
  Algebraic Methods and q-Special Functions ★Algebraic methods and q-special functions. **2000g:33002**

Items with secondary classifications in 33–06

(Alvarez-Nodarse, Renato) *see* **Orthogonal polynomials: numerical and symbolic algorithms, 2000k:00042**
(Clarkson, Peter A.) *see* **Symmetries and integrability of difference equations, 2000c:39002**
(Lorentzen, Lisa) *see* **Continued fractions and geometric function theory, 2000a:65003**
(Marcellán, Francisco) *see* **Orthogonal polynomials: numerical and symbolic algorithms, 2000k:00042**
(Nijhoff, Frank W.) *see* **Symmetries and integrability of difference equations, 2000c:39002**
(Njåstad, Olav) *see* **Continued fractions and geometric function theory, 2000a:65003**
(Rønning, Frode) *see* **Continued fractions and geometric function theory, 2000a:65003**
(Srivastava, Hari M.) *see* **Higher transcendental functions and their applications, 2000m:00020**
(Waadeland, Haakon) *see* **Continued fractions and geometric function theory, 2000a:65003**

Items listed otherwise than by author

Birthday:
  Waadeland, Haakon ★Continued fractions and geometric function theory (CONFUN). **2000a:65003**
Canterbury ★Symmetries and integrability of difference equations. **2000c:39002**
Conference:
  Continued Fractions and Geometric Function Theory ★Continued fractions and geometric function theory (CONFUN). **2000a:65003**
  Symmetries and Integrability of Difference Equations ★Symmetries and integrability of difference equations. **2000c:39002**
Continued fractions and geometric function theory ★Continued fractions and geometric function theory (CONFUN). **2000a:65003**
Higher transcendental functions and their applications ★Higher transcendental functions and their applications. **2000m:00020**
Leganés ★Orthogonal polynomials: numerical and symbolic algorithms. **2000k:00042**
Orthogonal polynomials: numerical and symbolic algorithms ★Orthogonal polynomials: numerical and symbolic algorithms. **2000k:00042**
Special Issue:
  Higher transcendental functions and their applications ★Higher transcendental functions and their applications. **2000m:00020**
Symmetries and integrability of difference equations ★Symmetries and integrability of difference equations. **2000c:39002**
Trondheim ★Continued fractions and geometric function theory (CONFUN). **2000a:65003**
Workshop:
  Orthogonal Polynomials: Numerical and Symbolic Algorithms ★Orthogonal polynomials: numerical and symbolic algorithms. **2000k:00042**

33Bxx Elementary classical functions

33B10 Exponential and trigonometric functions

Al-Sirehy, Fatma *see* **Fisher, Brian, 2000h:33001**
Chu, Wenchang (*with* Marini, Alberto) Partial fractions and trigonometric identities. (English summary) **2000i:33001**
Fisher, Brian (*with* Al-Sirehy, Fatma) On the cosine integral. (English summary) **2000h:33001**
Marini, Alberto *see* **Chu, Wenchang, 2000i:33001**
Srivastava, S. S. Integrals involving Horn function of two variables. (English summary) **2000h:33002**
Zhu, Wei Yi Some identities for the Taylor expansion coefficients of the tangent function. (Chinese. English and Chinese summaries)

Items with secondary classifications in 33B10

Bibiloni, Lluís *see* **Viader, Pelegrí et al., 2000g:11009**
Bundschuh, Peter Two topics in transcendence theory. **2000j:11110**
Ericksen, Larry The Pascal-De Moivre moments and their generating functions. **2000k:05022**
Fisher, Brian (*with* Nicholas, Joel D.) The neutrix convolution product of $\mathrm{ei}(\lambda x)$ and x^r. (English summary) **2000b:46067**
— (*with* Özçağ, Emin; Gülen, Ümit) The exponential integral and the commutative neutrix convolution product. (English summary) **2000k:46048**
Gülen, Ümit *see* **Fisher, Brian et al., 2000k:46048**
Nicholas, Joel D. *see* **Fisher, Brian, 2000b:46067**
Özçağ, Emin *see* **Fisher, Brian et al., 2000k:46048**
Paradís, Jaume *see* **Viader, Pelegrí et al., 2000g:11009**
Viader, Pelegrí (*with* Paradís, Jaume; Bibiloni, Lluís) Note on the Pierce expansion of a logarithm. **2000g:11009**

33B15 Gamma, beta and polygamma functions

Alzer, Horst A mean-value inequality for the gamma function. (English summary) **2000m:33001**
— Inequalities for the gamma function. (English summary) **2000c:33003**
Banerji, P. K. (*with* Sinha, Deepali) Asymptotic and characteristic evaluations of generalized gamma functions occurring in wave scattering problem. **2000g:33003**
Boros, George (*with* Moll, Victor H.) An integral with three parameters. (English summary) **2000h:33003**
Choi, June Sang (*with* Srivastava, Hari M.; Seo, Tae Young; Rathie, Arjun K.) Some families of infinite series. (English summary) **2000f:33002**
Elbert, Árpád (*with* Laforgia, Andrea) On some properties of the gamma function. (English summary) **2000m:33002**
Laforgia, Andrea *see* **Elbert, Árpád, 2000m:33002**
Leu, Shing-Hwa *see* **Wu, Tsu-Chen et al., 2000k:33003**
Moll, Victor H. *see* **Boros, George, 2000h:33003**
Nishimoto, Katsuyuki (*with* Salinas de Romero, Susana) Some identities for the gamma functions (a serendipity in fractional calculus). (English summary) **2000k:33002**
— $\Gamma(-z)$ and the graph of $\Gamma(-x)$. (English summary)

Palumbo, Biagio Determinantal inequalities for the psi function. (English summary) **2000h:33004**
Rathie, Arjun K. *see* **Choi, June Sang et al., 2000f:33002**
Salinas de Romero, Susana *see* **Nishimoto, Katsuyuki, 2000k:33002**
Seo, Tae Young *see* **Choi, June Sang et al., 2000f:33002**
Sinha, Deepali *see* **Banerji, P. K., 2000g:33003**
Srivastava, Hari M. *see* **Choi, June Sang et al., 2000f:33002** *and* **Wu, Tsu-Chen et al., 2000k:33003**
Tu, Shih-Tong *see* **Wu, Tsu-Chen et al., 2000k:33003**
Webster, Roger On the Bohr-Mollerup-Artin characterization of the gamma function. **2000f:33003**
Wu, Tsu-Chen (*with* Leu, Shing-Hwa; Tu, Shih-Tong; Srivastava, Hari M.) A certain class of infinite sums associated with digamma functions. (English summary) **2000k:33003**
— (*with* Tu, Shih-Tong; Srivastava, Hari M.) Some combinatorial series identities associated with the digamma function and harmonic numbers. (English summary)

Items with secondary classifications in 33B15

Agarwal, Ravi P. *see* **Dragomir, Sever Silvestru et al., 2000m:26012**
Allasia, G. *see* **Pečarić, Josip E. et al., 2000e:26015**
Alyakrinskiĭ, A. A. On the representation of the values of Euler's gamma function at some rational points in the form of an infinite product. (Russian) (*see* **2000i:00022**)
Alzer, Horst Remark on the stability of the gamma functional equation. (English summary) **2000e:39022**
Balasubramanian, Ramachandran (*with* Ponnusamy, Saminathan) Applications of duality principle to integral transforms of analytic functions. (English summary) **2000c:33004**
Banerji, P. K. Dirichlet averages and its application (a halcyon of mathematical analysis). (English summary)
Barnett, N. S. *see* **Dragomir, Sever Silvestru et al., 2000m:26012**
Benguria, Rafael D. (*with* Depassier, M. Cristina) A reversed Poincaré inequality for monotone functions. (English summary) **2000k:26021**
Cho, Young Joon (*with* Seo, Tae Young; Choi, June Sang) Sums of series associated with binomial coefficients. (English summary) **2000m:33019**
Choi, June Sang Some identities involving factorials. (English summary) **2000a:33001**
— (*with* Srivastava, Hari M.) Certain classes of series involving the zeta function. (English summary) **2000c:11143**
— (*with* Srivastava, Hari M.) An application of the theory of the double gamma function. **2000k:58038**
— (*with* Srivastava, Hari M.) Certain classes of infinite series. (English summary) **2000a:40003**
— *see also* **Cho, Young Joon et al., 2000m:33019**
Craviotto, Cathleen M. (*with* Jones, William B.; Wyshinski, Nancy J.) Computation of the Binet and gamma functions by Stieltjes continued fractions. **2000a:65026**
Depassier, M. Cristina *see* **Benguria, Rafael D., 2000k:26021**
Ding, Li (*with* Guan, Bing Xin; Yin, Wei Ping) Special functions on a class of nonselfdual cones. (Chinese. English and Chinese summaries) **2000g:32025**
Dragomir, Sever Silvestru (*with* Agarwal, Ravi P.; Barnett, N. S.) Inequalities for beta and gamma functions via some classical and new integral inequalities. (English summary) **2000m:26012**
Elbert, Árpád (*with* Laforgia, Andrea) An inequality for the product of two integrals relating to the incomplete gamma function. (English summary) **2000m:26013**
Fisher, Brian *see* **Kiliçhaman, Adem, 2000g:46055**
Galué, Leda *see* **Luque, R., 2000j:26007**
García, Glenny *see* **Sarabia, José et al., 2000g:33005**
Giordano, Carla *see* **Pečarić, Josip E. et al., 2000e:26015**
Guan, Bing Xin *see* **Ding, Li et al., 2000g:32025**
Jones, William B. *see* **Craviotto, Cathleen M. et al., 2000a:65026**
Kiliçhaman, Adem (*with* Fisher, Brian) The commutative neutrix product of $\Gamma^{(r)}(x)$ and $\delta^{(s)}(x)$. (English summary) **2000g:46055**
Laforgia, Andrea *see* **Elbert, Árpád, 2000m:26013**
Li, Jian Lin (*with* Srivastava, Hari M.) Some inclusion properties of the class $\mathcal{P}_\alpha(\beta)$. (English summary) **2000h:30018**
Lin, Ping[2] *see* **Zhao, Xiaoxia et al., 2000h:32031**
Luque, R. (*with* Galué, Leda) The application of a generalized Leibniz rule to infinite sums. (English summary) **2000j:26007**
Pečarić, Josip E. (*with* Allasia, G.; Giordano, Carla) Convexity and the gamma function. (English summary) **2000e:26015**
Ponnusamy, Saminathan *see* **Balasubramanian, Ramachandran, 2000c:33004**
Sarabia, José (*with* Villalobos, Alfredo; Garcia, Glenny) The gamma-(m, β) function. (Spanish. English and Spanish summaries) **2000g:33005**
Saxena, Ram Kishore Functional relations involving generalized H-function. (English summary) **2000e:33014**
Seo, Tae Young *see* **Cho, Young Joon et al., 2000m:33019**
Srivastava, Hari M. *see* **Choi, June Sang, 2000a:40003**;**2000c:11143**;**2000k:58038** *and* **Li, Jian Lin, 2000h:30018**
Trif, Tiberiu Combinatorial sums and series involving inverses of binomial coefficients. **2000j:11033**
Van Hamme, Lucien On the Mahler coefficients of the logarithmic derivative of the p-adic gamma function. (English summary) **2000m:11120**
Venturini, Sergio Gaussian integrals, multinomial coefficients, and homogeneous functions. **2000a:05007**
Vernescu, Andrei Sur l'établissement de deux inégalités partant d'une indication de Monsieur le Professeur D. D. Stancu. (English summary) [Proof of two inequalities as suggested by D. D. Stancu] (*see* **2000e:65013**)
Villalobos, Alfredo *see* **Sarabia, José et al., 2000g:33005**
Wyshinski, Nancy J. *see* **Craviotto, Cathleen M. et al., 2000a:65026**
Yin, Wei Ping *see* **Ding, Li et al., 2000g:32025** *and* **Zhao, Xiaoxia et al., 2000h:32031**
Zhao, Xiaoxia (*with* Lin, Ping[2]; Yin, Wei Ping) Gamma functions and Siegel integrals on nonselfdual cones. (English summary) **2000h:32031**

33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

Items with secondary classifications in 33B20

Banerji, P. K. (*with* Sinha, Deepali) Asymptotic and characteristic evaluations of generalized gamma functions occurring in wave scattering problem. **2000g:33003**
Cang, S. *see* **Dunster, T. M. et al., 2000a:30073**
Dunster, T. M. (*with* Paris, R. B.; Cang, S.) On the high-order coefficients in the uniform asymptotic expansion for the incomplete gamma function. (English summary) **2000a:30073**
Gel'fand, Izrail' Moiseevich (*with* Graev, M. I.; Retakh, Vladimir) General gamma functions, exponentials and hypergeometric functions. (Russian) **2000f:33017**
Graev, M. I. *see* **Gel'fand, Izrail' Moiseevich et al., 2000f:33017**
Olde Daalhuis, A. B. On the resurgence properties of the uniform asymptotic expansion of the incomplete gamma function. (English summary) **2000a:34098**
Paris, R. B. *see* **Dunster, T. M. et al., 2000a:30073**
Retakh, Vladimir *see* **Gel'fand, Izrail' Moiseevich et al., 2000f:33017**
Sinha, Deepali *see* **Banerji, P. K., 2000g:33003**

33B30 Higher logarithm functions

Items with secondary classifications in 33B30

Anastasiou, C. (*with* Glover, E. W. N.; Oleari, C.) Application of the negative-dimension approach to massless scalar box integrals. (English summary) **2000j:81174**
— (*with* Glover, E. W. N.; Oleari, C.) The two-loop scalar and tensor pentabox graph with light-like legs. (English summary) **2000m:81125**
Bytsko, Andrei G. Fermionic representations for characters of $\mathcal{M}(3, t)$, $\mathcal{M}(4, 5)$, $\mathcal{M}(5, 6)$ and $\mathcal{M}(6, 7)$ minimal models and related dilogarithm and Rogers-Ramanujan-type identities. (English summary) **2000k:81120**
Chim, Leung Central charge and the Andrews-Bailey construction. (English summary) **2000e:81156**
Cohen, Henri On the 2-adic valuations of the truncated polylogarithm series. **2000e:11014**
Glover, E. W. N. *see* **Anastasiou, C. et al., 2000j:81174** *and* **2000m:81125**
McIntosh, Richard J. Some asymptotic formulae for q-shifted factorials. (English summary) **2000f:11018**
Oleari, C. *see* **Anastasiou, C. et al., 2000j:81174** *and* **2000m:81125**
Petkou, Anastasios C. (*with* Silva Neto, Marcello B.) On the free-energy of three-dimensional CFTs and polylogarithms. (English summary) **2000c:81170**
Ponnusamy, Saminathan Inclusion theorems for convolution product of second order polylogarithms and functions with the derivative in a halfplane. (English summary) **2000c:30033**
Silva Neto, Marcello B. *see* **Petkou, Anastasios C., 2000c:81170**
Smirnov, Vladimir Aleksandrovich[3] (*with* Veretin, O. L.) Analytical results for dimensionally regularized massless on-shell double boxes with arbitrary indices and numerators. (English summary) **2000k:81222**
Veretin, O. L. *see* **Smirnov, Vladimir Aleksandrovich[3], 2000k:81222**

33B99 None of the above, but in this section

Osler, Thomas J. The union of Vieta's and Wallis's products for pi.

Items with secondary classifications in 33B99

Hikami, Kazuhiro The Z_N symmetric quantum lattice field theory. The quantum group symmetry, the Yang-Baxter equation, and the integrals of motion. (English summary) **2000c:81215**

33Cxx Hypergeometric functions

33C05 Classical hypergeometric functions, ${}_2F_1$

Agarwal, Ratan Prakash ★ Resonance of Ramanujan's mathematics. Vol. III. (English summary) **2000m:33003**
Arora, M. S. *see* **Bajpai, S. D. et al.**
Bajpai, S. D. (*with* Arora, M. S.; Mishra, Sadhana) Semi-orthogonalities of a class of Gauss hypergeometric functions. (English and Spanish summaries)
Balasubramanian, Ramachandran (*with* Ponnusamy, Saminathan) Applications of duality principle to integral transforms of analytic functions. (English summary) **2000c:33004**
Barnard, Roger W. On applications of hypergeometric functions. (English summary) **2000d:33001**
Bromberg, Sara Some results on generating functions. (Spanish. English summary) **2000j:33001**
Ghazal, G. A. (*with* Haroun, A. H.) The computation of hypergeometric series useful in Bayesian analysis. (English summary)
Haroun, A. H. *see* **Ghazal, G. A.**
Mishra, Sadhana *see* **Bajpai, S. D. et al.**
Ponnusamy, Saminathan *see* **Balasubramanian, Ramachandran, 2000c:33004**
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33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

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Baran Majumdar, Asit On bilateral generating functions. I. (English summary) **2000d:33002**
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Fabijonas, Bruce R. (*with* Olver, F. W. J.) On the reversion of an asymptotic expansion and the zeros of the Airy functions. (English summary) **2000k:33005**
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Khriptun, M. D. Some applications of a generalized integral theorem of Neumann type. (Russian. Russian summary) (*see* **2000b:00007**)
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Ben Cheikh, Youssèf Decomposition of Laguerre polynomials with respect to the cyclic group of order n. (English summary) **2000a:33008**
Bleher, Pavel (*with* It·s, A. R.) On asymptotic analysis of orthogonal polynomials via the Riemann-Hilbert method. (English summary) **2000h:42014**
Bundschuh, Peter Two topics in transcendence theory. **2000j:11110**
Carletti, Ettore (*with* Monti Bragadin, Giacomo) On Schlömilch series associated with certain Dirichlet series. (English summary) **2000c:11149**
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33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$

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Matsumoto, Keiji Intersection numbers for 1-forms associated with confluent hypergeometric functions. **2000a:33002**
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33C20 Generalized hypergeometric series, ${}_pF_q$

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— A new hypergeometric generating relation. **2000k:33008**
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Koornwinder, Tom H. Identities of nonterminating series by Zeilberger's algorithm. (English summary) **2000j:33004**
Metwally, M. S. Derivative operator on a hypergeometric function of three complex variables. (English summary) **2000m:33005**
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Nishimoto, Katsuyuki *see* **Salinas de Romero, Susana et al., 2000k:33009**
Popov, A. Yu. *see* **Sadovnichiĭ, Viktor Antonovich, 2000g:33006**
Prieto, Ana Isolina A generalized radiation integral. (Spanish. English and Spanish summaries) **2000e:33005**
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Ališauskas, Sigitas (*with* Draayer, Jerry P.) From canonical tensor operators of SU(3) and $u_q(3)$ to bi-orthogonal coupling coefficients: explicit expansion. (English summary) **2000a:81066**
Andrews, George E. Pfaff's method. I. The Mills-Robbins-Rumsey determinant. (English summary) **2000a:15007**
Apelblat, Alexander The integral representation of functions as the asymptotic limit of infinite integral of the Bessel function $J_\nu(\nu x)$. (English summary) **2000e:33001**
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Dziok, Jacek (*with* Srivastava, Hari M.) Classes of analytic functions associated with the generalized hypergeometric function. (English summary) **2000d:30014**
Gessel, Ira M. *see* **Helfgott, Harald A., 2000h:05010**
Helfgott, Harald A. (*with* Gessel, Ira M.) Enumeration of tilings of diamonds and hexagons with defects. (English summary) **2000h:05010**
Kalla, Shyam L. *see* **Arrieta de Uzcátegui, Xiomara, 2000k:78027**
Khan, Mumtaz Ahmad (*with* Abukhammash, Ghazi Salama) On Hermite polynomials of two variables suggested by S. F. Ragab's Laguerre polynomials of two variables. (English summary) **2000h:33005**
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Kim, Insook On the rates of asymptotic regularity for some unbounded trajectories. (English summary) **2000m:47071**
Kim, Yong Chan[1] (*with* Ponnusamy, Saminathan) Sufficiency for Gaussian hypergeometric functions to be uniformly convex. (English summary) **2000m:30019**
Koepf, Wolfram ★ Hypergeometric summation. (English summary) **2000c:33002**
Krattenthaler, Christian A new proof of the M-R-R conjecture—including a generalization. (English summary) **2000h:05012**
Li, Jian Lin (*with* Srivastava, Hari M.) Some inclusion properties of the class $\mathcal{P}_\alpha(\beta)$. (English summary) **2000h:30018**
Lian, Bong H. (*with* Yau, Shing-Tung) Integrality of certain exponential series. (English summary) **2000h:12011**
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33C45 Orthogonal polynomials and functions of hypergeometric type (Jacobi, Laguerre, Hermite, Askey scheme, etc.) [see also 42C05 for general orthogonal polynomials and functions]

Abukhammash, Ghazi Salama *see* **Khan, Mumtaz Ahmad, 2000h:33005**
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Askey, Richard A. Continued fractions and orthogonal polynomials. (English summary) **2000k:33012**
Atakishiev, N. M. (*with* Vicent, Luis Edgar; Wolf, Kurt Bernardo) Continuous vs. discrete fractional Fourier transforms. (English summary) **2000j:33005**
Bajguz, W. (*with* Kwaśniewski, Andrzej K.) On hyperbolic quasinumbers and Chebyshev-like functions. (English summary) **2000g:33007**
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— On generating functions of modified Laguerre polynomials. (English summary) **2000a:33005**
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Barbulyak, L. V. (*with* Kozitskiĭ, Yu. V.) Integral transformations of functions of a special type and their membership in the class of Laguerre entire functions. (Ukrainian. English and Russian summaries) **2000e:33007**
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— (*with* Koekoek, J.) Differential operators having symmetric orthogonal polynomials as eigenfunctions. (English summary) **2000g:33008**
— Generalizations of Meixner polynomials which are eigenfunctions of a difference operator. (English summary) **2000a:33007**
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Ben Cheikh, Youssèf Decomposition of Laguerre polynomials with respect to the cyclic group of order n. (English summary) **2000a:33008**
Boros, George (*with* Moll, Victor H.) A sequence of unimodal polynomials. (English summary) **2000m:33007**
Bosbach, Christof (*with* Gawronski, Wolfgang) Strong asymptotics for Laguerre polynomials with varying weights. (English summary) **2000a:33009**
Campos, Rafael G. Perturbed zeros of classical orthogonal polynomials. (English summary) **2000g:33009**
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— (*with* Godika, Anju) A typical two-dimensional exponential Bessel expansion associated with general polynomials, Fox's H-function and the H-function of several complex variables. (English summary)
Chen, Yang[1] (*with* Ismail, Mourad E. H.) Ladder operators and differential equations for orthogonal polynomials. (English summary) **2000i:33011**
Chongdar, A. K. (*with* Pittaluga, Giovanna; Sacripante, Laura) On generating functions for certain special functions by Weisner's group-theoretic method. (English summary) **2000g:33010**
Chu, Wenchang Finite differences and orthogonal polynomials. (English summary) **2000d:33004**
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Gangopadhyay, Gautam An operator approach to the construction of generating functions for the product of Laguerre polynomials: the thermal average bandshape function of a molecule. (English summary) **2000k:33016**

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Godika, Anju *see* **Chaurasia, V. B. L.**

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33C65 Appell, Horn and Lauricella functions

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33C67 Hypergeometric functions associated with root systems

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33C99 None of the above, but in this section

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33Dxx Basic hypergeometric functions

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33D05 q-gamma functions, q-beta functions and integrals

Elezović, Neven (*with* Giordano, Carla; Pečarić, Josip E.) Convexity and q-gamma function. (English summary) **2000h:33013**
Giordano, Carla *see* **Elezović, Neven et al., 2000h:33013**
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Rahman, Mizan (*with* Suslov, Sergeĭ K.) A unified approach to the summation and integration formulas for q-hypergeometric functions. II, III. (English summary) **2000a:33024**
Suslov, Sergeĭ K. *see* **Rahman, Mizan, 2000a:33024**

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Jang, Douk Soo *see* **Son, Jin-Woo, 2000j:11034**
Kim, Taekyun On a q-analogue of the p-adic log gamma functions and related integrals. (English summary) **2000c:11195**
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33D15 Basic hypergeometric functions in one variable, ${}_r\varphi_s$

Atakishiev, N. M. Fourier-Gauss transforms of q-exponential and q-Bessel functions. (English summary) **2000k:33036**
Denis, R. Y. (*with* Singh, Shobh Nath; Sulata, D.) On certain q-series and continued fractions. **2000d:33014**
Galway, William F. An asymptotic expansion of Ramanujan. (English summary) **2000e:33021**

Hammond, Paul (*with* Lewis, Richard P.; Liu, Zhi Guo) Hirschhorn's identities. (English summary) **2000g:33019**
Jain, Vinod Kumar (*with* Verma, Arun[1]) Biorthogonal rational functions. (English summary) **2000i:33027**
Kang, Soon-Yi Some theorems on the Rogers-Ramanujan continued fraction and associated theta function identities in Ramanujan's lost notebook. (English summary) **2000h:33014**
Karlsson, Per W. (*with* Srivastava, Hari M.) Transformations of multiple q-series with quasi-arbitrary terms. (English summary) **2000f:33014**
Lewis, Richard P. (*with* Liu, Zhi Guo) On two identities of Ramanujan. (English summary) **2000k:33037**
— *see also* **Hammond, Paul et al., 2000g:33019**
Liu, Zhi Guo *see* **Hammond, Paul et al., 2000g:33019** *and* **Lewis, Richard P., 2000k:33037**
Morse, Jennifer Some classical expansions for Knop-Sahi and Macdonald polynomials. (English summary) **2000b:33010**
Nishizawa, Michitomo On a solution of a q-difference analogue of Lauricella's D-type hypergeometric equation with $|q| = 1$. (English summary) **2000f:33015**
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Agarwal, Ratan Prakash ★ Resonance of Ramanujan's mathematics. Vol. III. (English summary) **2000m:33003**
Alladi, Krishnaswami A fundamental but unexploited partition invariant. **2000g:11100**
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— (*with* Andrews, George E.) A quartic key identity for a partition theorem of Göllnitz. (English summary) **2000f:11133**
Andrews, George E. (*with* Schilling, Anne; Warnaar, S. Ole) An A_2 Bailey lemma and Rogers-Ramanujan-type identities. (English summary) **2000c:11167**
— *see also* **Alladi, Krishnaswami, 2000f:11133** *and* **Askey, Richard A., 2000k:01023**
Askey, Richard A. The work of George Andrews: a Madison perspective. **2000k:01023**
Berg, Christian On some indeterminate moment problems for measures on a geometric progression. (English summary) **2000f:44010**
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Bhatnagar, Gaurav D_n basic hypergeometric series. (English summary) **2000f:33016**
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Chu, Wenchang Partial-fraction expansions and well-poised bilateral series. (English summary) **2000d:33003**
Ekin, A. Bülent Inequalities for the crank. (English summary) **2000a:11150**
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Han, Guo-Niu (*with* Randrianarivony, A.; Zeng, Jiang) Un autre q-analogue des nombres d'Euler. (English summary) [Another q-analogue of the Euler numbers] **2000g:11013**
Ho, Choon-Lin On the use of Mellin transform to a class of q-difference-differential equations. (English summary) **2000m:39043**
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Kawanaka, Noriaki A q-series identity involving Schur functions and related topics. **2000a:05209**
Krattenthaler, Christian (*with* Schlosser, Michael) A new multidimensional matrix inverse with applications to multiple q-series. (English summary) **2000j:33011**
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Milne, Stephen C. (*with* Bhatnagar, Gaurav) A characterization of inverse relations. (English summary) **2000a:05019**
Ol'shanetskiĭ, M. A. (*with* Rogov, V.-B. K.) The Fourier q-transform of q-generalized functions. (Russian. Russian summary) **2000f:46054**
Rahman, Mizan (*with* Suslov, Sergeĭ K.) A unified approach to the summation and integration formulas for q-hypergeometric functions. II, III. (English summary) **2000a:33024**
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Warnaar, S. Ole q-trinomial identities. (English summary) **2000b:05020**
— Supernomial coefficients, Bailey's lemma and Rogers-Ramanujan-type identities. A survey of results and open problems. (English summary) **2000i:11160**
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Zhang, Changgui Développements asymptotiques q-Gevrey et séries Gq-sommables. (English and French summaries) [q-Gevrey asymptotic expansions and Gq-summable series] **2000g:39017**
Zhang, Yi Bin *see* **Wei, Hong Zeng, 2000j:05013**

33D45 Basic orthogonal polynomials and functions (Askey-Wilson polynomials, etc.)

Area, I. *see* **Godoy, E. et al., 2000c:33021**
Atakishiev, N. M. *see* **Atakishieva, M. K. et al., 2000a:33025**
Atakishieva, M. K. (*with* Atakishiev, N. M.; Villegas-Blas, C.) On the square integrability of the q-Hermite functions. (English summary) **2000a:33025**
Bangerezako, Gaspard The factorization method for the Askey-Wilson polynomials. (English summary) **2000h:33015**
Chen, Yang[1] (*with* Lawrence, Nigel) Density of zeros of some orthogonal polynomials. (English summary) **2000a:33026**
Garrett, Kristina (*with* Ismail, Mourad E. H.; Stanton, Dennis) Variants of the Rogers-Ramanujan identities. (English summary) **2000i:33028**
Godoy, E. (*with* Ronveaux, A.; Zarzo, A.; Area, I.) Connection problems for polynomial solutions of nonhomogeneous differential and difference equations. (English summary) **2000c:33021**
Ismail, Mourad E. H. (*with* Rahman, Mizan; Stanton, Dennis) Quadratic q-exponentials and connection coefficient problems. (English summary) **2000a:33027**
— *see also* **Garrett, Kristina et al., 2000i:33028**
Kriecherbauer, Thomas (*with* McLaughlin, K. T-R) Strong asymptotics of polynomials orthogonal with respect to Freud weights. **2000h:33016**
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Lawrence, Nigel *see* **Chen, Yang[1], 2000a:33026**
McLaughlin, K. T-R *see* **Kriecherbauer, Thomas, 2000h:33016**
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Ruijsenaars, S. N. M. A generalized hypergeometric function satisfying four analytic difference equations of Askey-Wilson type. (English summary) **2000k:33040**
Sklyanin, E. K. *see* **Kuznetsov, V. B., 2000k:33039**
Spiridonov, Vyacheslav q-special functions: differential-difference equations, roots of unity, and all that. (English summary) **2000m:33022**
Stanton, Dennis *see* **Ismail, Mourad E. H. et al., 2000a:33027** *and* **Garrett, Kristina et al., 2000i:33028**
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(Al-Salam, Waleed) *see* **Algebraic methods and q-special functions, 2000g:33002**
Alvarez-Nodarse, Renato (*with* Quintero, Niurka Rodríguez; Ronveaux, A.) On the linearization problem involving Pochhammer symbols and their q-analogues. (English summary) **2000i:33010**
Area, I. (*with* Godoy, E.; Marcellán, Francisco) Inner products involving differences: the Meixner-Sobolev polynomials. (English summary) **2000m:33006**
Askey, Richard A. Continued fractions and orthogonal polynomials. (English summary) **2000k:33012**
Baik, Jinho (*with* Deift, P. A.; Johansson, Kurt) On the distribution of the length of the longest increasing subsequence of random permutations. **2000e:05006**
Chung, Won Sang (*with* Kalnins, E. G.; Miller, Willard, Jr.) Tensor products of q-superalgebras and q-series identities. I. (English summary) **2000k:33042**
Davis, A. W. Spherical functions on the Grassmann manifold and generalized Jacobi polynomials. I. (English summary) **2000i:33015**
— Spherical functions on the Grassmann manifold and generalized Jacobi polynomials. II. (English summary) **2000i:33016**
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— *see also* **Baik, Jinho et al., 2000e:05006**
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Elaydi, Saber N. Difference equations in combinatorics, number theory, and orthogonal polynomials. (English summary) **2000h:39002**
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Han, Guo-Niu (*with* Zeng, Jiang) q-polynômes de Gandhi et statistique de Denert. (English summary) [Gandhi q-polynomials and Denert statistics] **2000i:05015**
Jain, Vinod Kumar (*with* Verma, Arun[1]) Biorthogonal rational functions. (English summary) **2000i:33027**
Johansson, Kurt *see* **Baik, Jinho et al., 2000e:05006**
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Koelink, H. T. (*with* Van Der Jeugt, J.) Convolutions for orthogonal polynomials from Lie and quantum algebra representations. (English summary) **2000i:33022**
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Lassalle, Michel Coefficients binomiaux généralisés et polynômes de Macdonald. [Generalized binomial coefficients and Macdonald coefficients] **2000a:33028**

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Noumi, Masatoshi *see* **Dijkhuizen, Mathijs S., 2000m:33023**
Quintero, Niurka Rodríguez *see* **Alvarez-Nodarse, Renato et al., 2000i:33010**
Rahman, Mizan A q-extension of a product formula of Watson. (English summary) **2000m:33021**
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Sasamoto, Tomohiro One-dimensional partially asymmetric simple exclusion process with open boundaries: orthogonal polynomials approach. (English summary) **2000k:82025**
Stokman, Jasper V. Multivariable BC type Askey-Wilson polynomials with partly discrete orthogonality measure. (English summary) **2000f:33007**
Van Assche, Walter *see* **Kuijlaars, A. B. J., 2000h:42015**
Van Der Jeugt, J. *see* **Koelink, H. T., 2000i:33022** *and* **2000i:33023**
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Vinet, Luc (*with* Zhedanov, A. S.) Szegö polynomials on the real axis. (English summary) **2000h:33010**
— *see also* **Algebraic methods and q-special functions, 2000g:33002**
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Algebraic Methods and q-Special Functions ★ Algebraic methods and q-special functions. **2000g:33002**

33D52 Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)

Mimachi, Katsuhisa A new derivation of the inner product formula for the Macdonald symmetric polynomials. (English summary) **2000c:33022**
Nishino, Akinori (*with* Ujino, Hideaki; Wadati, Miki) An algebraic approach to the non-symmetric Macdonald polynomial. (English summary) **2000i:33029**
Ujino, Hideaki *see* **Nishino, Akinori et al., 2000i:33029**
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33D60 Basic hypergeometric integrals and functions defined by them

Items with secondary classifications in 33D60

Nishizawa, Michitomo On a solution of a q-difference analogue of Lauricella's D-type hypergeometric equation with $|q| = 1$. (English summary) **2000f:33015**
Ruijsenaars, S. N. M. A generalized hypergeometric function satisfying four analytic difference equations of Askey-Wilson type. (English summary) **2000k:33040**

33D65 Bibasic functions and multiple bases

Singer, Dan W. A p-analogue of the q-Saalschütz identity. (English summary) **2000e:33022**

33D67 Basic hypergeometric functions associated with root systems

Lassalle, Michel Coefficients binomiaux généralisés et polynômes de Macdonald. [Generalized binomial coefficients and Macdonald coefficients] **2000a:33028**
Nishino, Akinori (*with* Ujino, Hideaki; Wadati, Miki) Rodrigues formula for the nonsymmetric Macdonald polynomial. (English summary) **2000d:33016**
Ujino, Hideaki *see* **Nishino, Akinori et al., 2000d:33016**
Wadati, Miki *see* **Nishino, Akinori et al., 2000d:33016**

Items with secondary classifications in 33D67

Heckman, G. J. Dunkl operators. (English summary) **2000i:33021**
Ishikawa, Masao (*with* Wakayama, Masato) New Schur function series. (English summary) **2000a:05208**
Nakatani, Minobu (*with* Noumi, Masatoshi) q-hypergeometric systems arising from quantum Grassmannians. **2000a:33029**
Noumi, Masatoshi *see* **Nakatani, Minobu, 2000a:33029**
Wakayama, Masato *see* **Ishikawa, Masao, 2000a:05208**

33D70 Other basic hypergeometric functions and integrals in several variables

Bhatnagar, Gaurav (*with* Schlosser, Michael) C_n and D_n very-well-poised ${}_{10}\varphi_9$ transformations. (English summary) **2000j:33012**
— D_n basic hypergeometric series. (English summary) **2000f:33016**
Kuznetsov, V. B. (*with* Sklyanin, E. K.) Separation of variables and integral relations for special functions. (English summary) **2000e:33023**
Leininger, Verne E. (*with* Milne, Stephen C.) Expansions for $(q)_\infty^{n^2+2n}$ and basic hypergeometric series in $U(n)$. (English summary) **2000e:33024**
Milne, Stephen C. *see* **Leininger, Verne E., 2000e:33024**
Nakatani, Minobu On some q-confluent hypergeometric systems associated with the quantum Grassmannians of type $(2, n)$. **2000g:33021**
Schlosser, Michael *see* **Bhatnagar, Gaurav, 2000j:33012**
Sklyanin, E. K. *see* **Kuznetsov, V. B., 2000e:33023**
Varchenko, A. N. Quantization of geometry associated to the quantized Knizhnik-Zamolodchikov equations. **2000j:33013**

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Bhatnagar, Gaurav A short proof of an identity of Sylvester. (English summary) **2000g:05146**
Mimachi, Katsuhisa A new derivation of the inner product formula for the Macdonald symmetric polynomials. (English summary) **2000c:33022**
Nakatani, Minobu (*with* Noumi, Masatoshi) q-hypergeometric systems arising from quantum Grassmannians. **2000a:33029**
Noumi, Masatoshi *see* **Nakatani, Minobu, 2000a:33029**

33D80 Connections with quantum groups, Chevalley groups, p-adic groups, Hecke algebras, and related topics

Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.; Mansour, Mansuor Mahmoud) Quantum group approach to q-special functions. (English summary)
Ališauskas, Sigitas Balanced and well-poised basic hypergeometric functions and biorthogonal coupling coefficients of $u_q(3)$. (English summary) **2000b:33011**
Aomoto, Kazuhiko On elliptic product formulas for Jackson integrals associated with reduced root systems. (English summary) **2000b:33012**
Beck, Jonathan (*with* Frenkel, Igor B.; Jing, Naihuan) Canonical basis and Macdonald polynomials. (English summary) **2000k:33041**
Cherednik, Ivan From double Hecke algebra to analysis. (English summary) **2000b:33013**
Chung, Won Sang (*with* Kalnins, E. G.; Miller, Willard, Jr.) Tensor products of q-superalgebras and q-series identities. I. (English summary) **2000k:33042**
Dai, Bin Lin Some theorems on parabolic elements and Poisson kernels in higher dimensions. (Chinese. English and Chinese summaries)
Dijkhuizen, Mathijs S. (*with* Noumi, Masatoshi) A family of quantum projective spaces and related q-hypergeometric orthogonal polynomials. (English summary) **2000m:33023**
Frenkel, Igor B. *see* **Beck, Jonathan et al., 2000k:33041**
Gel′fand, Izrail′ Moiseevich (*with* Graev, M. I.; Retakh, Vladimir) General gamma functions, exponentials and hypergeometric functions. (Russian) **2000f:33017**
Graev, M. I. *see* **Gel′fand, Izrail′ Moiseevich et al., 2000f:33017**
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Jing, Naihuan *see* **Beck, Jonathan et al., 2000k:33041**
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Sahai, Vivek On models of $U_q(\mathrm{sl}(2))$ and q-Appell functions using a q-integral transformation. (English summary) **2000b:33014**
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Ališauskas, Sigitas (*with* Draayer, Jerry P.) From canonical tensor operators of SU(3) and $u_q(3)$ to bi-orthogonal coupling coefficients: explicit expansion. (English summary) **2000a:81066**
— Towards the canonical tensor operators of $u_q(3)$. II. The denominator function problem. (English summary) **2000j:81103**
Arakawa, Tomoyuki (*with* Suzuki, Takeshi; Tsuchiya, Akihiro) Degenerate double affine Hecke algebra and KZ-equation. (Japanese) **2000b:32032**
Barcucci, Elena (*with* Del Lungo, Alberto; Fédou, J. M.; Pinzani, Renzo) Steep polyominoes, q-Motzkin numbers and q-Bessel functions. (English summary) **2000a:05018**
Bytsko, Andrei G. Fermionic representations for characters of $\mathcal{M}(3, t)$, $\mathcal{M}(4, 5)$, $\mathcal{M}(5, 6)$ and $\mathcal{M}(6, 7)$ minimal models and related dilogarithm and Rogers-Ramanujan-type identities. (English summary) **2000k:81120**
Carnovale, Giovanna On the braided Fourier transform on the n-dimensional quantum space. (English summary) **2000k:58006**
Chung, Won Sang q-Laguerre polynomial realization of $\mathrm{gl}_{\sqrt{q}}(N)$-covariant oscillator algebra. (English summary) **2000a:81110**
Del Lungo, Alberto *see* **Barcucci, Elena et al., 2000a:05018**
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Etingof, Pavel I. (*with* Styrkas, Konstantin) Algebraic integrability of Macdonald operators and representations of quantum groups. (English summary) **2000g:17015**
Fédou, J. M. *see* **Barcucci, Elena et al., 2000a:05018**
Felder, Giovanni (*with* Varchenko, A. N.) Resonance relations for solutions of the elliptic QKZB equations, fusion rules, and eigenvectors of transfer matrices of restricted interaction-round-a-face models. (English summary) **2000j:81241**
Golitzin, George Specialized characters of affine superalgebras. **2000f:17033**
Hasegawa, Koji (*with* Ikeda, Takeshi; Kikuchi, Tetsuya) Commuting difference operators arising from the elliptic $C_2^{(1)}$-face model. (English summary) **2000f:82031**
Ikeda, Takeshi *see* **Hasegawa, Koji et al., 2000f:82031**
Irac-Astaud, Michèle (*with* Quesne, Christianne) Unitary representations of $\mathrm{su}_q(2)$ on the plane for $q \in \mathbf{R}^+$ or generic $q \in S^1$. (English summary) **2000c:81130**
— (*with* Quesne, Christianne) Unitary representations of the quantum algebra $\mathrm{su}_q(2)$ on a real two-dimensional sphere for $q \in \mathbf{R}^+$ or generic $q \in S^1$. (English summary) **2000i:81058**
Karasëv, V. P. Polynomial Lie algebras in solving a class of integrable models of quantum optics: exact methods and quasiclassics. (English summary) **2000c:81389**
Kikuchi, Tetsuya *see* **Hasegawa, Koji et al., 2000f:82031**
Koelink, H. T. (*with* Van Der Jeugt, J.) Convolutions for orthogonal polynomials from Lie and quantum algebra representations. (English summary) **2000i:33022**
— (*with* Van Der Jeugt, J.) Bilinear generating functions for orthogonal polynomials. (English summary) **2000i:33023**
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33D90 Applications

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— *see also* **Andrews, George E. et al., 2000c:11167**

33D99 None of the above, but in this section

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33Exx Other special functions

33E05 Elliptic functions and integrals

Chouikha, A. Raouf On the expansion of elliptic functions and applications. (English summary) **2000m:33024**
Cvijović, Djurdje (*with* Klinowski, Jacek) Integrals involving complete elliptic integrals. (English summary) **2000d:33017**
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Klinowski, Jacek *see* **Cvijović, Djurdje, 2000d:33017**
López García, José Luis Asymptotic expansions of symmetric standard elliptic integrals. (English summary) **2000m:33025**
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— (*with* Wiśniowska, Agnieszka) Conic regions and k-uniform convexity. (English summary) **2000c:30022**
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Volkmer, Hans On the growth of convergence radii for the eigenvalues of the Mathieu equation. (English summary) **2000a:34053**
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33E10 Lamé, Mathieu, and spheroidal wave functions

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Ruijsenaars, S. N. M. Generalized Lamé functions. I. The elliptic case. (English summary) **2000e:33026**
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Choudhury, A. Ghose (*with* Roy Chowdhury, Asesh) Reduction problem for four wave interaction and the classical r matrix. (English summary) **2000g:37113**
Cvetič, Mirjam (*with* Lü, Hong[1]; Pope, Christopher N.; Tran, Tuan A.) Exact absorption probability in the extremal six-dimensional dyonic string background. (English summary) **2000b:81126**
Dyakin, V. V. *see* **Ahner, J. F. et al., 2000c:78010**
Faliva, M. (*with* Zoia, M. G.) Trend-cycle detection with the prolate spheroidal function method. (Italian. English and Italian summaries)
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Kuznetsov, V. B. (*with* Sklyanin, E. K.) Separation of variables and integral relations for special functions. (English summary) **2000e:33023**
Lü, Hong[1] *see* **Cvetič, Mirjam et al., 2000b:81126**

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Raevskiĭ, V. Ya. *see* **Ahner, J. F. et al., 2000c:78010**
Ritter, Stefan *see* **Ahner, J. F. et al., 2000c:78010**
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Roy Chowdhury, Asesh *see* **Choudhury, A. Ghose, 2000g:37113**
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33E15 Other wave functions

Items with secondary classifications in 33E15

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33E17 Painlevé-type functions

Items with secondary classifications in 33E17

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Grammaticos, B. *see* **Ramani, A. et al., 2000m:34206**
Hone, A. N. W. *see* **Nijhoff, Frank W. et al., 2000m:37156**
Joshi, Nalini *see* **Nijhoff, Frank W. et al., 2000m:37156**
Kudryashov, N. A. On new transcendents defined by nonlinear ordinary differential equations. (English summary) **2000h:34152**
— (*with* Soukharev, Mikhail B.) Uniformization and transcendence of solutions for the first and second Painlevé hierarchies. (English summary) **2000b:34147**
— Transcendents defined by nonlinear fourth-order ordinary differential equations. (English summary) **2000j:34011**
— Two hierarchies of ordinary differential equations and their properties. (English summary) **2000b:34148**
Lu, Youmin (*with* McLeod, J. Bryce) Asymptotics of the negative solutions to the general fifth Painlevé equation. (English summary) **2000m:34205**
McLeod, J. Bryce *see* **Lu, Youmin, 2000m:34205**
Nijhoff, Frank W. (*with* Joshi, Nalini; Hone, A. N. W.) On the discrete and continuous Miura chain associated with the sixth Painlevé equation. (English summary) **2000m:37156**
Noumi, Masatoshi (*with* Yamada, Yasuhiko) Affine Weyl groups, discrete dynamical systems and Painlevé equations. (English summary) **2000f:37102**
— (*with* Yamada, Yasuhiko) Symmetries in the fourth Painlevé equation and Okamoto polynomials. (English summary) **2000c:34015**
Okamoto, Kazuo The Hamiltonians associated to the Painlevé equations. **2000g:34148**
Ramani, A. (*with* Grammaticos, B.; Tamizhmani, T.; Tamizhmani, K. M.) On a transcendental equation related to Painlevé III, and its discrete forms. (English summary) **2000m:34206**
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Takei, Yoshitsugu On a WKB-theoretic approach to the Painlevé transcendents. II. **2000f:34186**
Tamizhmani, K. M. *see* **Ramani, A. et al., 2000m:34206**
Tamizhmani, T. *see* **Ramani, A. et al., 2000m:34206**
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— *see also* **Noumi, Masatoshi, 2000c:34015** *and* **2000f:37102**

33E20 Other functions defined by series and integrals

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Boros, George (*with* Moll, Victor H.) An integral hidden in Gradshteyn and Ryzhik. (English summary) **2000c:33024**
Brummelhuis, Raymond (*with* Ruskai, Mary Beth; Werner, Elisabeth) One-dimensional regularizations of the Coulomb potential with application to atoms in strong magnetic fields. (English summary) (*see* **2000m:00026**)
Gaftoi N., Violeta *see* **Morales, Jesús et al., 2000i:33032**
Galué, Leda (*with* Kalla, Shyam L.; Vũ Kim Tuấn) Some Sonine-Gegenbauer type integrals. (English summary) **2000g:33023**
Kalla, Shyam L. (*with* Al-Shammery, A. H.) Some results involving a generalized rectangular source integral. (English summary) **2000i:33031**
— *see also* **Galué, Leda et al., 2000g:33023**
Moll, Victor H. *see* **Boros, George, 2000c:33024**
Morales, Jesús (*with* Peña, J. J.; Ovando Zúñiga, Gerardo; Gaftoi N., Violeta) Algebraic approach to closed formulation of Kratzer potential integrals. (English summary) **2000i:33032**
Ovando Zúñiga, Gerardo *see* **Morales, Jesús et al., 2000i:33032**
Paszkowski, Stefan The Bloch-Grüneisen integrals. Some analytic expressions. (English summary) **2000k:33043**
Peña, J. J. *see* **Morales, Jesús et al., 2000i:33032**
Ruskai, Mary Beth *see* **Brummelhuis, Raymond et al.,** (**2000m:00026**)
Vũ Kim Tuấn *see* **Galué, Leda et al., 2000g:33023**
Werner, Elisabeth *see* **Brummelhuis, Raymond et al.,** (**2000m:00026**)

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Boros, George (*with* Moll, Victor H.) An integral with three parameters. (English summary) **2000h:33003**
Brylinski, Jean-Luc The beta function of a knot. (English summary) **2000f:58026**
Chouikha, A. Raouf On the expansion of elliptic functions and applications. (English summary) **2000m:33024**
Crandall, Richard E. New representations for the Madelung constant. (English summary) **2000m:11125**
Exton, H. A new solution of the biconfluent Heun equation. (English and Italian summaries) **2000d:34002**
Galué, Leda *see* **Molina, Beatriz, 2000a:33020**
Garrett, Kristina (*with* Ismail, Mourad E. H.; Stanton, Dennis) Variants of the Rogers-Ramanujan identities. (English summary) **2000i:33028**
Gel′fand, Izrail′ Moiseevich (*with* Graev, M. I.; Retakh, Vladimir) General gamma functions, exponentials and hypergeometric functions. (Russian) **2000f:33017**
Graev, M. I. *see* **Gel′fand, Izrail′ Moiseevich et al., 2000f:33017**
Ismail, Mourad E. H. *see* **Garrett, Kristina et al., 2000i:33028**
Jain, Rajendra Kumar[4] (*with* Ronghe, A. K.) Generalized integrals for product of pair of Kelvin and generalized H-functions. (Hindi. English and Hindi summaries) **2000k:33031**
Kilbas, A. A. *see* **Saĭgo, M., 2000d:33011**
Molina, Beatriz (*with* Galué, Leda) A new generalization of elliptic type integrals. (English summary) **2000a:33020**
Moll, Victor H. *see* **Boros, George, 2000h:33003**
Retakh, Vladimir *see* **Gel′fand, Izrail′ Moiseevich et al., 2000f:33017**
Ronghe, A. K. *see* **Jain, Rajendra Kumar[4], 2000k:33031**
Saĭgo, M. (*with* Kilbas, A. A.) Generalized fractional calculus of the H-function. (English summary) **2000d:33011**
— (*with* Saxena, Ram Kishore) Unified fractional integral formulas for the multivariable H-function. (English summary) **2000g:33017**
Saxena, Ram Kishore *see* **Saĭgo, M., 2000g:33017**
Shrivastava, H. S. P. Evaluation of certain class of Eulerian integrals of the multivariable H-function. (English summary) **2000h:33011**
Stanton, Dennis *see* **Garrett, Kristina et al., 2000i:33028**
Wu, S. Q. (*with* Xu, Cai) Exact solutions to sourceless charged massive scalar field equation on Kerr-Newman background. (English summary) **2000g:81131**
Xu, Cai *see* **Wu, S. Q., 2000g:81131**

33E30 Other functions coming from differential, difference and integral equations

Items with secondary classifications in 33E30

Abukhammash, Ghazi Salama *see* **Khan, Mumtaz Ahmad, 2000h:33005**
Bundschuh, Peter (*with* Wallisser, R.) Maße für die lineare Unabhängigkeit von Werten ganz transzendenter Lösungen gewisser Funktionalgleichungen. [Measures of linear independence of values of entire transcendental solutions of certain functional equations] **2000m:11060**
Diamond, Harold G. (*with* Halberstam, H.) Differential inequalities for Iwaniec's q functions. **2000f:11123**
Halberstam, H. *see* **Diamond, Harold G., 2000f:11123**
Kajiwara, Kenji (*with* Masuda, Tetsu) On the Umemura polynomials for the Painlevé III equation. (English summary) **2000f:34185**
Khan, Mumtaz Ahmad (*with* Abukhammash, Ghazi Salama) On Hermite polynomials of two variables suggested by S. F. Ragab's Laguerre polynomials of two variables. (English summary) **2000h:33005**
Kohno, Mitsuhiko ★ Global analysis in linear differential equations. (English summary) **2000h:34150**
Lewanowicz, Stanisław Recurrence relations for the connection coefficients of orthogonal polynomials of a discrete variable on the lattice $x(s) = q^{2s}$. (English summary) **2000a:33018**
Masuda, Tetsu *see* **Kajiwara, Kenji, 2000f:34185**
Matano, Tohru (*with* Matumiya, Atusi; Takano, Kyoichi) On some Hamiltonian structures of Painlevé systems. II. (English summary) **2000g:34147**
Matumiya, Atusi *see* **Matano, Tohru et al., 2000g:34147**
Porubský, Štefan Identities with covering systems and Appell polynomials. (English summary) **2000e:11013**
Sezgin, Münevver (*with* Verdiev, İ. A.) Quantum integrable systems of the groups SU(2) and SU(1, 1). (English summary) **2000k:81127**
Steinberg, Jacob E. Series expansion of biharmonic functions around a slit. (English summary)
Takano, Kyoichi *see* **Matano, Tohru et al., 2000g:34147**
Verdiev, İ. A. *see* **Sezgin, Münevver, 2000k:81127**
Wallisser, R. *see* **Bundschuh, Peter, 2000m:11060**

33E99 None of the above, but in this section

Items with secondary classifications in 33E99

Schilling, Anne (*with* Warnaar, S. Ole) Supernomial coefficients, polynomial identities and q-series. (English summary) **2000c:33023**
Warnaar, S. Ole *see* **Schilling, Anne, 2000c:33023**

33Fxx Computational aspects

33F05 Numerical approximation [see also 65D20]

Gilewicz, Jacek (*with* Leopold, Elie) Zeros of polynomials and recurrence relations with periodic coefficients. (English summary) **2000i:33033**
Hoggan, P. E. *see* **Safouhi, H., 2000h:33017**
Leopold, Elie *see* **Gilewicz, Jacek, 2000i:33033**
Miyakoda, Tsuyako Automatic computation of the confluent hypergeometric function. (English summary)
Safouhi, H. (*with* Hoggan, P. E.) Efficient and rapid evaluation of three-center two electron Coulomb and hybrid integrals using nonlinear transformations. (English summary) **2000h:33017**

Items with secondary classifications in 33F05

Boros, George (*with* Moll, Victor H.) An integral with three parameters. (English summary) **2000h:33003**
Crandall, Richard E. New representations for the Madelung constant. (English summary) **2000m:11125**
Fabijonas, Bruce R. (*with* Olver, F. W. J.) On the reversion of an asymptotic expansion and the zeros of the Airy functions. (English summary) **2000k:33005**
Gori Nicolò-Amati, Laura (*with* Santi, Elisabetta) Quadrature rules based on s-orthogonal polynomials for evaluating integrals with strong singularities. (English summary) **2000m:65038**
Hoggan, P. E. *see* **Safouhi, H., 2000i:65227**
Jones, D. S. Rawlins' method and the diaphanous cone. (English summary) **2000m:78028**
Karatsuba, E. A. Fast evaluation of hypergeometric functions by FEE. (English summary) **2000e:65030**
Moll, Victor H. *see* **Boros, George, 2000h:33003**
Olver, F. W. J. *see* **Fabijonas, Bruce R., 2000k:33005**
Paszkowski, Stefan The Bloch-Grüneisen integrals. Some analytic expressions. (English summary) **2000k:33043**
Petras, Knut On the computation of the Gauss-Legendre quadrature formula with a given precision. (English summary) (*see* **2000h:65013**)
Safouhi, H. (*with* Hoggan, P. E.) Non-linear transformations for rapid and efficient evaluation of multicenter bielectronic integrals over B functions. (English summary) **2000i:65227**
Santi, Elisabetta *see* **Gori Nicolò-Amati, Laura, 2000m:65038**
Segala, Fausto On the asymptotic expansion of the Airy function. (Italian summary) **2000k:33006**

33F10 Symbolic computation (Gosper and Zeilberger algorithms, etc.) [see also 68W30]

Items with secondary classifications in 33F10

(Askey, Richard A.) *see* **Orthogonal polynomials and computer algebra, 2000k:33001**
Koepf, Wolfram ★ Hypergeometric summation. (English summary) **2000c:33002**
— (*with* Schmersau, Dieter) Representations of orthogonal polynomials. (English summary) **2000d:33005**
— *see also* **Orthogonal polynomials and computer algebra, 2000k:33001**
Koornwinder, Tom H. Identities of nonterminating series by Zeilberger's algorithm. (English summary) **2000j:33004**
— *see also* **Orthogonal polynomials and computer algebra, 2000k:33001**
López García, José Luis Asymptotic expansions of symmetric standard elliptic integrals. (English summary) **2000m:33025**
Schmersau, Dieter *see* **Koepf, Wolfram, 2000d:33005**

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Orthogonal polynomials and computer algebra ★ Orthogonal polynomials and computer algebra. **2000k:33001**
Special Issue:
Orthogonal polynomials and computer algebra ★ Orthogonal polynomials and computer algebra. **2000k:33001**

34–XX Ordinary differential equations

34–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ahmad, Shair (*with* Rama Mohana Rao, M.) ★ Theory of ordinary differential equations. (English summary) **2000i:34001**
Azevedo Scárdua, Bruno ★ Tópicos de equações diferenciais ordinárias. (Portuguese) [Topics in ordinary differential equations] **2000i:34002**
Barbu, Luminiţa *see* **Sburlan, Silviu et al., 2000m:34001**
Bear, H. S. ★ Differential equations. (English summary) **2000b:34001**
Borrelli, Robert L. (*with* Coleman, Courtney S.) Modeling and visualization in the introductory ODE course. (*see* **2000g:34002**)
Boyce, William E. Differential equations in the information age. (English summary) (*see* **2000g:34002**)
Branton, Michael (*with* Hale, Margie) A geometric approach to ordinary differential equations. (*see* **2000g:34002**)
Chicone, Carmen ★ Ordinary differential equations with applications. (English summary) **2000h:34001**
Coleman, Courtney S. *see* **Borrelli, Robert L., (2000g:34002)**
Gladwell, Ian *see* **Shampine, Lawrence F., (2000g:34002)**
(Gussi, G.) *see* **Sburlan, Silviu et al., 2000m:34001**
Hale, Margie *see* **Branton, Michael, (2000g:34002)**
Hsieh, Po-Fang (*with* Sibuya, Yasutaka) ★ Basic theory of ordinary differential equations. (English summary) **2000g:34001**
Jordan, D. W. (*with* Smith, Peter[2]) ★ Nonlinear ordinary differential equations. (English summary) **2000j:34001**
Lomen, David O. Data as an essential part of a course in differential equations. (*see* **2000g:34002**)
Manoranjan, V. S. Qualitative study of differential equations. (English summary) (*see* **2000g:34002**)
Mortici, Cristinel *see* **Sburlan, Silviu et al., 2000m:34001**
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Sburlan, Silviu (*with* Barbu, Luminiţa; Mortici, Cristinel) ★ Ecuaţii diferenţiale, integrale şi sisteme dinamice. (Romanian. Romanian summary) [Differential equations, integral equations and dynamical systems] **2000m:34001**
Shampine, Lawrence F. (*with* Gladwell, Ian) Teaching numerical methods in ODE courses. (English summary) (*see* **2000g:34002**)
Sibuya, Yasutaka *see* **Hsieh, Po-Fang, 2000g:34001**
Smith, Peter[2] *see* **Jordan, D. W., 2000j:34001**
(Stănăşilă, Octavian) *see* **Sburlan, Silviu et al., 2000m:34001**
West, Beverly H. Technology in differential equations courses: my experiences, student reactions. (*see* **2000g:34002**)

Items with secondary classifications in 34–01

(Kallaher, Michael J.) *see* **Revolutions in differential equations, 2000g:34002**

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Revolutions in differential equations ★ Revolutions in differential equations. **2000g:34002**

34–02 Research exposition (monographs, survey articles)

Filippov, V. V. ★ Basic topological structures of ordinary differential equations. (English summary) **2000c:34001**
Kato, Junji (*with* Martynyuk, A. A.; Shestakov, A. A.) ★ Stability of motion of nonautonomous systems (method of limiting equations). (English summary) **2000a:34001**
Martynyuk, A. A. *see* **Kato, Junji et al., 2000a:34001**
(Mitropol'skiĭ, Yuriĭ Alekseevich) *see* **Kato, Junji et al., 2000a:34001**
Shestakov, A. A. *see* **Kato, Junji et al., 2000a:34001**

34–03 Historical (must also be assigned at least one classification number from Section 01)

Gray, Jeremy J. ★ Linear differential equations and group theory from Riemann to Poincaré. (English summary) **2000m:34002**

Items with secondary classifications in 34–03

(Bogolyubov, N. N.) *see* **Mitropol'skiĭ, Yuriĭ Alekseevich, 2000i:01029**
Gaĭshun, I. V. (*with* Izobov, N. A.) Research at the Institute of Mathematics of the Belarus Academy of Sciences on differential and multiparameter systems. (Russian. English and Russian summaries)
Izobov, N. A. *see* **Gaĭshun, I. V.**
Mira, Christian Some historical aspects of nonlinear dynamics: possible trends for the future [MR 99m:01027]. (English summary) (*see* **2000a:00029**)
Mitropol'skiĭ, Yuriĭ Alekseevich The role of Nikolaĭ Nikolaevich Bogolyubov in the development of the theory of nonlinear oscillations. (Russian. English and Ukrainian summaries) **2000i:01029**
Nápoles Valdés, Juan E. The historical legacy of ordinary differential equations. (Spanish. English and Spanish summaries) **2000j:01007**
Ronto, N. I. Scientific research of the Department of Analysis of the University of Miskolc in the field of differential equations. (English summary) **2000j:01117**
Tournès, Dominique L'origine des méthodes multipas pour l'intégration numérique des équations différentielles ordinaires. (English and French summaries) [The origin of multistep methods for the numerical integration of ordinary differential equations] **2000j:65007**

34–04 Explicit machine computation and programs (not the theory of computation or programming)

Baumann, Gerd Solution of ordinary differential equations with MathLie: method of canonical variables. (English summary) **2000h:34002**
van der Put, Marius Symbolic analysis of differential equations. **2000a:34002**

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Bi, Qin Sheng (*with* Yu, Pei) Computation of normal forms of differential equations associated with non-semisimple zero eigenvalues. (English summary) **2000j:34056**
— (*with* Yu, Pei) Symbolic software development for computing the normal form of double Hopf bifurcation. (English summary) **2000b:34057**
Borrelli, Robert L. (*with* Coleman, Courtney S.) Modeling and visualization in the introductory ODE course. (*see* **2000g:34002**)
Boyce, William E. Differential equations in the information age. (English summary) (*see* **2000g:34002**)
Cheb-Terrab, E. S. (*with* Roche, A. D.) Integrating factors for second-order ODEs. (English summary) **2000d:34001**
Coleman, Courtney S. *see* **Borrelli, Robert L., (2000g:34002)**
Davenport, James H. *see* **Dupée, Brian J., (2000g:00047)**
De Meyer, Hans *see* **Ixaru, L. Gr. et al., 2000d:65119**
Denisenko, P. (*with* Letichevskiĭ, Aleksandr Adol'fovich; Volkov, V. A.) Solving of boundary-value problems in algebraic programming system. (English summary) (*see* **2000g:00075**)
Dumortier, Freddy (*with* Herssens, Chris) Tracing phase portraits of planar polynomial vector fields with detailed analysis of the singularities. (English summary) **2000m:34066**
Dupée, Brian J. (*with* Davenport, James H.) An automatic symbolic-numeric Taylor series ODE solver. (English summary) (*see* **2000g:00047**)
(Ganzha, V. G.) *see* **Computer algebra in scientific computing—CASC'99, 2000g:00047**
Govaerts, W. (*with* Kuznetsov, Yuriĭ Aleksandrovich; Sijnave, B.) Bifurcations of maps in the software package CONTENT. (English summary) **2000h:37137**
Herssens, Chris *see* **Dumortier, Freddy, 2000m:34066**
Hu, Hai Yan *see* **Wang, Zai Hua, 2000f:34156**
Huseyin, Koncay *see* **Zhang, Wei Yi, 2000h:34069**
Ichikawa, Tadaoki *see* **Yagasaki, Kazuyuki, 2000d:34092**
Ixaru, L. Gr. (*with* De Meyer, Hans; Vanden Berghe, Guido) SLCPM12—a program for solving regular Sturm-Liouville problems. (English summary) **2000d:65119**
Jodl, H.-J. *see* **Korsch, H. J., 2000g:37002**
Jorba, Àngel A methodology for the numerical computation of normal forms, centre manifolds and first integrals of Hamiltonian systems. (English summary) **2000e:37142**
(Kallaher, Michael J.) *see* **Revolutions in differential equations, 2000g:34002**
Kierzenka, Jacek A. *see* **Shampine, Lawrence F. et al., 2000f:65070**
Korsch, H. J. (*with* Jodl, H.-J.) ★ Chaos. (English summary) **2000g:37002**
Kuznetsov, Yuriĭ Aleksandrovich ★ Elements of applied bifurcation theory. (English summary) **2000f:37060**
— *see also* **Govaerts, W. et al., 2000h:37137**
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Lu, Zheng Yi (*with* Wang, G.) The positive definiteness of a class of polynomials from the global stability analysis of Lotka-Volterra systems. (English summary) **2000f:34100**
Lynch, Stephen Generalized cubic Liénard equations. (English summary) **2000k:34054**
(Mayr, Ernst W.) *see* **Computer algebra in scientific computing—CASC'99, 2000g:00047**
Reichelt, Mark W. *see* **Shampine, Lawrence F. et al., 2000f:65070**
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Shampine, Lawrence F. (*with* Reichelt, Mark W.; Kierzenka, Jacek A.) Solving index-1 DAEs in MATLAB and Simulink. (English summary) **2000f:65070**
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Vanden Berghe, Guido *see* **Ixaru, L. Gr. et al., 2000d:65119**
Volkov, V. A. *see* **Denisenko, P. et al., (2000g:00075)**
(Vorozhtsov, Evgeniĭ V.) *see* **Computer algebra in scientific computing—CASC'99, 2000g:00047**
Wang, G. *see* **Lu, Zheng Yi, 2000f:34100**
Wang, Zai Hua (*with* Hu, Hai Yan) Delay-independent stability of retarded dynamic systems of multiple degrees of freedom. (English summary) **2000f:34156**
West, Beverly H. Technology in differential equations courses: my experiences, student reactions. (*see* **2000g:34002**)
Yagasaki, Kazuyuki (*with* Ichikawa, Tadaoki) Higher-order averaging for periodically forced, weakly nonlinear systems. (English summary) **2000d:34092**
Yu, Pei *see* **Bi, Qin Sheng, 2000b:34057** *and* **2000j:34056**
Zhang, Wei Yi (*with* Huseyin, Koncay) Computation of the coefficients associated with the normal form of a resonant five-dimensional system. (English summary) **2000h:34069**

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Revolutions in differential equations ★ Revolutions in differential equations. **2000g:34002**
Workshop:
Computer Algebra in Scientific Computing ★ Computer algebra in scientific computing—CASC'99. **2000g:00047**

34–06 Proceedings, conferences, collections, etc.

(Conte, Robert) *see* **Painlevé property, 2000e:34001**
(Kallaher, Michael J.) *see* **Revolutions in differential equations, 2000g:34002**
(Osipenko, G. S.) *see* **Differential equations and applications, 2000m:34003**

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Differential Equations and Applications ★ Differential equations and applications. (Russian) **2000m:34003**
Differential equations and applications ★ Differential equations and applications. (Russian) **2000m:34003**
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Revolutions in differential equations ★ Revolutions in differential equations. **2000g:34002**

St. Petersburg ★ Differential equations and applications. (Russian) **2000m:34003**

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(Aeyels, Dirk) *see* **Stability and stabilization of nonlinear systems, 2000e:93003**
Bethuel, Fabrice (*with* Huisken, Gerhard; Müller, Stefan C.; Steffen, Klaus) ★ Calculus of variations and geometric evolution problems. **2000g:00042**
(Bronstein, Manuel) *see* **Differential algebra and differential equations, 2000h:12001**
(Chen, Wenxiong) *see* **Dynamical systems and differential equations, 2000e:00020** *and* **2000e:00021**
(Cronin, Jane) *see* **Analyzing multiscale phenomena using singular perturbation methods, 2000g:00044**
(Gaĭshun, I. V.) *see* **Nonlinear analysis and related problems, 2000e:00029**
(Gorokhovik, V. V.) *see* **Nonlinear analysis and related problems, 2000e:00029**
(Harris, William A., Jr.) *see* **Analyzing multiscale phenomena using singular perturbation methods, 2000g:00044**
(Hildebrandt, Stefan) *see* **Bethuel, Fabrice et al., 2000g:00042**
(Hu, Shouchuan) *see* **Dynamical systems and differential equations, 2000e:00020** *and* **2000e:00021**
Huisken, Gerhard *see* **Bethuel, Fabrice et al., 2000g:00042**
(Lamnabhi-Lagarrigue, Françoise) *see* **Stability and stabilization of nonlinear systems, 2000e:93003**
(Lebedev, Andrei) *see* **Nonlinear analysis and related problems, 2000e:00029**
Müller, Stefan C. *see* **Bethuel, Fabrice et al., 2000g:00042**
(O'Malley, Robert E., Jr.) *see* **Analyzing multiscale phenomena using singular perturbation methods, 2000g:00044**
(van der Schaft, Arjan J.) *see* **Stability and stabilization of nonlinear systems, 2000e:93003**
(Sit, W.) *see* **Differential algebra and differential equations, 2000h:12001**
Steffen, Klaus *see* **Bethuel, Fabrice et al., 2000g:00042**
(Struwe, Michael) *see* **Bethuel, Fabrice et al., 2000g:00042**
(Zabreĭko, Petr Petrovich) *see* **Nonlinear analysis and related problems, 2000e:00029**

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Athens ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 8. **2000g:00067**
Baltimore, MD ★ Analyzing multiscale phenomena using singular perturbation methods. **2000g:00044**
Birthday:
  Zabreĭko, Petr Petrovich ★ Нелинейный анализ и смежные вопросы. (Russian) [Nonlinear analysis and related problems] **2000e:00029**
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Cetraro *see* **Bethuel, Fabrice et al., 2000g:00042**
Chelyabinsk ★ Дифференциальные и интегральные уравнения. (Russian) [Differential and integral equations]
Conference:
  Differential and Integral Equations ★ Дифференциальные и интегральные уравнения. (Russian) [Differential and integral equations]
  Differential Equations and their Applications ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications]
  Dynamical Systems and Differential Equations ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
  — ★ Dynamical systems and differential equations. Vol. II. **2000e:00021**
  Dynamics Days ★ {UK Dynamics Days Conference}. **2000g:00049**
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  Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 8. **2000g:00067**
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  Zabreĭko, Petr Petrovich ★ Нелинейный анализ и смежные вопросы. (Russian) [Nonlinear analysis and related problems] **2000e:00029**
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  Congress of Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 8. **2000g:00067**
Resurgent functions and convolution integral equations ★ Resurgent functions to gōsei seki hōteishiki. [Resurgent functions and convolution integral equations] **2000j:00026**
Saransk ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications]
Session:
  Calculus of Variations and Geometric Evolution Problems *see* **Bethuel, Fabrice et al., 2000g:00042**
Special Issue:
  Differential algebra and differential equations ★ Differential algebra and differential equations. **2000h:12001**
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  Resurgent Functions and Convolution Integral Equations ★ Resurgent functions to gōsei seki hōteishiki. [Resurgent functions and convolution integral equations] **2000j:00026**
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  Nonlinear Control Network ★ Stability and stabilization of nonlinear systems. **2000e:93003**

34Axx General theory

Ronto, N. I. (*with* Samoĭlenko, A. M.; Trofimchuk, Sergei I.) The theory of the numerical-analytic method: achievements and new directions of development. II. (Russian. English and Ukrainian summaries) **2000i:34003a**
— (*with* Samoĭlenko, A. M.; Trofimchuk, Sergei I.) The theory of the numerical-analytic method: achievements and new directions of development. III. (Russian. English and Ukrainian summaries) **2000i:34003b**
— (*with* Samoĭlenko, A. M.; Trofimchuk, Sergei I.) The theory of the numerical-analytic method: achievements and new directions of development. IV. (Russian. English and Ukrainian summaries) **2000i:34003c**
— (*with* Samoĭlenko, A. M.; Trofimchuk, Sergei I.) The theory of the numerical-analytic method: achievements and new directions of development. V. (Russian. English and Ukrainian summaries) **2000i:34003d**
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Samoĭlenko, A. M. *see* **Ronto, N. I. et al., 2000i:34003a**;**2000i:34003b**;**2000i:34003c**;**2000i:34003d** *and* **2000i:34003e**
Trofimchuk, Sergei I. *see* **Ronto, N. I. et al., 2000i:34003a**;**2000i:34003b**;**2000i:34003c**;**2000i:34003d** *and* **2000i:34003e**

34A05 Explicit solutions and reductions

Bîlă, Nicoleta Invariance of a second-order ordinary differential equation under a two-parameter Lie group. (English and Romanian summaries) **2000f:34001**
— Invariance of nth-order ordinary differential equations under a one-parameter Lie group of transformations. (English and Romanian summaries) **2000f:34002**
Cheb-Terrab, E. S. (*with* Roche, A. D.) Integrating factors for second-order ODEs. (English summary) **2000d:34001**
Cheng, Chong Gao Liouville's formula for linear nonhomogeneous equations and its applications. (Chinese. English and Chinese summaries)
Czyż, Janusz Is the "drunken sinusoid" a soliton solution? (English summary) **2000a:34003**
Denisenko, P. (*with* Letichevskiĭ, Aleksandr Adol'fovich; Volkov, V. A.) Solving of boundary-value problems in algebraic programming system. (English summary) (*see* **2000g:00075**)
Exton, H. A new solution of the biconfluent Heun equation. (English and Italian summaries) **2000d:34002**
— A new solution of the doubly-confluent Heun equation. (English and Arabic summaries) **2000h:34003**
Feng, Lu Xiang The general solution of a class of second-order linear differential equations. (Chinese. English and Chinese summaries)
Gao, Puyun Direct integration method and first integrals for three-dimensional Lotka-Volterra systems. (English summary) **2000b:34002**
Grytczuk, Krystyna On a class of differential equations connected with number-theoretic polynomials. (English summary) **2000h:34004**
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He, Ze Rong Some classes of integrable higher-order nonlinear ordinary differential equations. (Chinese. English and Chinese summaries)
Hernandez Suarez, V. *see* **Spirova, S., 2000c:34002**
Huang, Xiao Ping (*with* Tang, Guang Song) Types of second-order nonlinear differential equations that can be worked out by the variable substitution method. (Chinese. English and Chinese summaries)
Ke, Hong Lu (*with* Xie, He Xi) Differentiator series solution of linear differential ordinary equation. (Chinese. English and Chinese summaries)
Lei, Jin Zhi (*with* Guan, Ke Ying) An integration method for a class of third-order autonomous systems. (Chinese. English and Chinese summaries)
Letichevskiĭ, Aleksandr Adol'fovich *see* **Denisenko, P. et al.,** (**2000g:00075**)
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Radzhabov, N. R. Higher order ordinary differential equations with super-singular points. (English summary) **2000e:34002**
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Rosić, Nikola Double transformation and equation $L_n[a_0, y] = 0$. (English and Serbian summaries)
Spirova, S. (*with* Hernandez Suarez, V.) Explicit solutions to n-th order Bessel-Clifford integral and differential equations. (English summary) **2000c:34002**
Tang, Guang Song *see* **Huang, Xiao Ping**
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Wang, Zi Bin (*with* Zhou, Yun Hua) Elementary solutions of a class of linear homogeneous differential equations with variable coefficients. (Chinese. English and Chinese summaries)

Xie, He Xi *see* **Ke, Hong Lu**

Xu, Qian Li Particular solutions of nth order inhomogeneous linear equations with right-hand side $\cos(e^x)$ or $\sin(e^x)$. (Chinese. English and Chinese summaries)

— A particular solution of a nonhomogeneous nth order linear differential equation $P(x, D)y = \cos e^x$ (or $\sin e^x$) with variable coefficients. (Chinese. English and Chinese summaries)

Zhao, Lin Long New integrable forms of the Riccati equation. (Chinese. English and Chinese summaries)

Zhou, Yun Hua *see* **Wang, Zi Bin**

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Ablowitz, Mark J. (*with* Chakravarty, Sarbarish; Halburd, Rod) The generalized Chazy equation and Schwarzian triangle functions. (English summary) **2000h:34012**

Al-Hashemi, A. M. H. *see* **Banerji, P. K., 2000m:34010**

Ban, Peng Xin *see* **Li, De Hua et al.**

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Cairó, Laurent (*with* Llibre, Jaume) Integrability and algebraic solutions for the 2-D Lotka-Volterra system. (English summary) **2000g:34009**

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— (*with* Marmo, Giuseppe; Perelomov, A. M.; Rañada, Manuel F.) Related operators and exact solutions of Schrödinger equations. (English summary) **2000d:81027**

— (*with* Ramos, Arturo) Integrability of the Riccati equation from a group-theoretical viewpoint. (English summary) **2000e:34008**

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Chyan, Ding-Kuo *see* **Tu, Shih-Tong et al., 2000i:26009**

Clarkson, Peter A. (*with* Webster, Helen N.) Hierarchies of exact solutions for the discrete third Painlevé equation. (English summary) **2000j:34003**

Cosgrove, Christopher M. Higher-order Painlevé equations in the polynomial class. I. Bureau symbol P2. (English summary) **2000m:34204**

Dimitrovski, Dragan *see* **Kujumdzieva-Nikoloska, M., (2000j:00020)**

Georgievska, Slobodanka S. Reduction of a boundary problem of $n + 1$-th order to a boundary problem of the second order. (English and Macedonian summaries)

Gomes, Denilson (*with* de Oliveira, E. Capelas) On a new class of polynomials. (English summary) **2000g:33012**

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— (*with* Masuda, Tetsu) On the Umemura polynomials for the Painlevé III equation. (English summary) **2000f:34185**

Kawaguchi, Tomoaki *see* **Vujanović, Božidar D. et al., 2000i:70026**

Krylov, George (*with* Robnik, Marko) On one-dimensional Schrödinger problems allowing polynomial solutions. (English summary) **2000m:81041**

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Llibre, Jaume *see* **Cairó, Laurent, 2000g:34009**

Mahmoud, N. H. Partial differential equations with matricial coefficients and generalized translation operators. (English summary) **2000m:35082**

Marmo, Giuseppe *see* **Cariñena, José F. et al., 2000d:81027**

Masuda, Tetsu *see* **Kajiwara, Kenji, 2000c:34013** *and* **2000f:34185**

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Öztürk, İlhan On the solution of loaded linear differential equation with nonlocal boundary condition. (English summary)

Palomar Tarancón, J. E. Sufficient conditions for equivalence between non-linear and linear autonomous systems. (English summary) **2000b:34013**

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34Bxx Boundary value problems {For ordinary differential operators, see 34Lxx.}

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34B20 Weyl theory and its generalizations

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34B27 Green functions

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34B30 Special equations (Mathieu, Hill, Bessel, etc.)

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34C07 Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications)

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Zhou, Yu Rong The number of limit cycles surrounding multiple singular points. (Chinese. English and Chinese summaries) **2000b:34049**

34C08 Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.)

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Hainzl, Josef Uniqueness of limit cycles and quotients of Abelian integrals. **2000h:34057**
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Yomdin, Y. Infinitesimal center-focus problem, generalized moments and delay differential equations. (English summary) **2000k:34050**
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34C10 Oscillation theory, zeros, disconjugacy and comparison theory

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Chantladze, T. (*with* Kandelaki, N.; Lomtatidze, A. G.) Oscillation and nonoscillation criteria for a second order linear equation. (English summary) **2000c:34085**
— (*with* Kandelaki, N.; Lomtatidze, A. G.) On zeros of solutions of a second order singular half-linear equation. (English and Georgian summaries) **2000h:34058**
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34C20 Transformation and reduction of equations and systems, normal forms

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34C23 Bifurcation [See mainly 37Gxx]

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34C29 Averaging method

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34C30 Manifolds of solutions

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34C45 Method of integral manifolds

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34D08 Characteristic and Lyapunov exponents

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34D09 Dichotomy, trichotomy

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34D15 Singular perturbations

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34D20 Lyapunov stability

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34D30 Structural stability and analogous concepts [see also 37C20]

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34Exx Asymptotic theory

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34E05 Asymptotic expansions

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34Kxx Functional-differential and differential-difference equations, with or without deviating arguments [see also 37–XX]

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34K07 Theoretical approximation of solutions

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34K11 Oscillation theory

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34K23 Complex (chaotic) behavior of solutions

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34K35 Control problems [see also 49J25, 49K25, 93C15]

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34Lxx Ordinary differential operators [see also 47E05]

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34L10 Eigenfunction expansions, completeness of eigenfunctions

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34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions

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34L25 Scattering theory

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34L30 Nonlinear ordinary differential operators

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34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)

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34Mxx Differential equations in the complex domain [see also 30Dxx, 32G34]

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34M05 Entire and meromorphic solutions

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Chen, Zhan-Ben Factorization of meromorphic solutions to a class of typical non-linear differential equations. (English summary) **2000b:34143**
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Shimomura, Shun Value distribution of Painlevé transcendents of the third kind. (English summary) **2000j:34118**
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34M10 Oscillation, growth of solutions

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— (*with* Yang, Chung-Chun) Some further results on the zeros and growths of entire solutions of second order linear differential equations. (English summary) **2000i:34167**
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Chuaqui, Martin (*with* Osgood, Brad) Recent progress on the geometry of univalence criteria. **2000i:30018**
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Yu, Jun Yang On the growth of meromorphic solutions of Riccati equations. (Chinese. English and Chinese summaries) **2000m:34199**

34M15 Algebraic aspects (differential-algebraic, hypertranscendence, group-theoretical)

Caşu, Ioan *see* **Puta, Mircea, 2000h:34147**
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34M25 Formal solutions, transform techniques

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Iwano, Masahiro Analytical simplification of a 2-system of nonlinear equations with a degenerated irregular type singularity. **2000m:34202**
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34M30 Asymptotics, summation methods

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Ivanyuk, M. M. On the asymptotic behavior of solutions of systems of linear differential equations with an irregular singularity. (Russian. Russian summary) **2000f:34177**
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Elsner, Bernhard Hyperelliptic action integral. (English and French summaries) **2000f:14069**
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34M35 Singularities, monodromy, local behavior of solutions, normal forms

Bolibrukh, A. A. On isomonodromic confluences of Fuchsian singularities. (Russian) **2000g:34144**
— On Fuchsian systems with given asymptotics and monodromy. (Russian. Russian summary) **2000h:34148**
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Guan, Ke Ying (*with* Ma, Ling^3; Wang, Cuiwei) Global analysis of monodromy group of a Riccati equation on torus T^2. (English summary) **2000b:34146**
Kazakov, A. Ya. Integral symmetries, integral invariants, and monodromy matrices for ordinary differential equations. (Russian. Russian summary) **2000e:34150**
Kostov, Vladimir Petrov Quantum states of monodromy groups. (English summary) **2000h:34149**
Ma, Ling^3 *see* **Guan, Ke Ying et al., 2000b:34146**
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Takei, Yoshitsugu Birkhoff normal form of Hamiltonian systems and WKB-type formal solutions. (*see* **2000j:00026**)
Varadarajan, V. S. Group-theoretic aspects of linear meromorphic differential equations. (English summary) **2000a:34174**
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Belyaev, A. V. On the classification of singular points of solutions of the problem of the motion of a heavy rigid body. (Russian. English summary) **2000m:70018**
Bolibrukh, A. A. On the existence of Fuchsian systems with given asymptotics. (Russian. Russian summary) **2000f:34181**
— On sufficient conditions for the existence of a Fuchsian equation with prescribed monodromy. (English summary) **2000j:34117**
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Dietrich, Volker (*with* Knoben, Werner) Classification of linear differential equations with rational function coefficients. (English summary) **2000m:34197**
Duval, Anne Confluence procedures in the generalized hypergeometric family. (English summary) **2000a:33003**
Halburd, Rod *see* **Ablowitz, Mark J. et al., 2000c:34009**
Il'yashenko, Yulii S. The nonlinear Riemann-Hilbert problem. (Russian) **2000g:34146**
Joshi, Nalini Asymptotic studies of the Painlevé equations. (English summary) **2000i:34170**
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Kohno, Mitsuhiko ★ Global analysis in linear differential equations. (English summary) **2000h:34150**
Mahoux, Gilbert Introduction to the theory of isomonodromic deformations of linear ordinary differential equations with rational coefficients. (English summary) **2000i:34173**
Medvedeva, N. B. The principal term of the asymptotics of the monodromy transformation: computation by the Newton diagram. (Russian) **2000g:34048**
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34M37 Resurgence phenomena

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Delabaere, Eric (*with* Pham, Frédéric) Resurgent methods in semi-classical asymptotics. (English and French summaries) **2000f:34108**
Elsner, Bernhard Hyperelliptic action integral. (English and French summaries) **2000f:14069**
Jaffé, Charles *see* **Tovbis, Alexander et al., (2000f:37004)**
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Tsuchiya, Masa *see* **Tovbis, Alexander et al., (2000f:37004)**

34M40 Stokes phenomena and connection problems (linear and nonlinear)

Braaksma, B. L. J. (*with* Immink, G. K.; Sibuya, Yasutaka) The Stokes phenomenon in exact asymptotics. (English summary) **2000c:34230**
Immink, G. K. *see* **Braaksma, B. L. J. et al., 2000c:34230**
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Duval, Anne Confluence procedures in the generalized hypergeometric family. (English summary) **2000a:33003**
Glutsyuk, A. A. Stokes operators via limit monodromy of generic perturbation. (English summary) **2000g:34145**
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Kazakov, A. Ya. Integral symmetries, integral invariants, and monodromy matrices for ordinary differential equations. (Russian. Russian summary) **2000e:34150**
Kruskal, Martin D. *see* **Costin, Ovidiu, 2000h:34087**
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34M50 Inverse problems (Riemann-Hilbert, inverse differential Galois, etc.)

Bolibrukh, A. A. On the existence of Fuchsian systems with given asymptotics. (Russian. Russian summary) **2000f:34181**
— On sufficient conditions for the existence of a Fuchsian equation with prescribed monodromy. (English summary) **2000j:34117**
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34M55 Painlevé and other special equations; classification, hierarchies; isomonodromic deformations

Ablowitz, Mark J. (*with* Chakravarty, Sarbarish; Halburd, Rod) On Painlevé and Darboux-Halphen-type equations. (English summary) **2000f:34182**

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Bolibrukh, A. A. On orders of movable poles of the Schlesinger equation. (English summary) **2000m:34203**
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Halburd, Rod *see* **Ablowitz, Mark J. et al., 2000f:34182**
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Mahoux, Gilbert Introduction to the theory of isomonodromic deformations of linear ordinary differential equations with rational coefficients. (English summary) **2000i:34173**
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35–XX Partial differential equations

35–01 Instructional exposition (textbooks, tutorial papers, etc.)

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35–02 Research exposition (monographs, survey articles)

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(Gallagher, Isabelle) *see* **Chemin, Jean-Yves, 2000a:76030**
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35–03 Historical (must also be assigned at least one classification number from Section 01)

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35–04 Explicit machine computation and programs (not the theory of computation or programming)

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35–06 Proceedings, conferences, collections, etc.

(Ambrosetti, Antonio) *see* **Nonlinear functional analysis and applications to differential equations, 2000b:35003**
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Chongqing ★ Nonlinear partial differential equations and applications. **2000c:35003**
Chvalatice *see* **Drábek, Pavel et al., 2000a:35001**
Conference:
  Boundary Value Problems for Elliptic and Parabolic Operators ★ Boundary value problems for elliptic and parabolic operators. **2000m:35001**

Conference: (*cont'd.*)
Differential Equations and Mathematical Physics ★ Differential equations and mathematical physics. **2000h:35002**
Nonlinear Analysis ★ Proceedings of 1999 International Conference on Nonlinear Analysis. **2000m:35004**
Nonlinear Partial Differential Equations and Applications ★ Nonlinear partial differential equations and applications. **2000c:35003**
— ★ Nonlinear partial differential equations. **2000f:35002**
Nonlinear PDE's, Dynamics and Continuum Physics ★ Nonlinear PDE's, dynamics and continuum physics. **2000m:35003**
Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2000g:35003**
Partial Differential Equations and their Applications ★ Partial differential equations and their applications. **2000k:35003**
Congress:
Applied and Industrial Mathematics ★ Неклассические уравнения математической физики. (Russian) [Nonclassical equations in mathematical physics] **2000b:35002**
Contemporary Mathematics ★ Nonlinear partial differential equations. **2000f:35002**
— ★ Nonlinear PDE's, dynamics and continuum physics. **2000m:35003**
Differential equations and mathematical physics ★ Differential equations and mathematical physics. **2000h:35002**
Evanston, IL ★ Nonlinear partial differential equations. **2000f:35002**
Festschrift:
Liu, Fon Che ★ Proceedings of 1999 International Conference on Nonlinear Analysis. **2000m:35004**
Inverse problems and related topics ★ Inverse problems and related topics. **2000m:35002**
Kobe ★ Inverse problems and related topics. **2000m:35002**
Memorial Issue:
Chiarenza, Filippo ★ Boundary value problems for elliptic and parabolic operators. **2000m:35001**
Memorial Volume:
Sobolev, Sergeĭ L'vovich ★ Неклассические уравнения математической физики. (Russian) [Nonclassical equations in mathematical physics] **2000b:35002**
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Nonlinear differential equations *see* **Drábek, Pavel et al., 2000a:35001**
Nonlinear evolution equations and applications ★ Hisenkei hatten hōteishiki to sono ōyō. (Japanese. English summary) [Nonlinear evolution equations and applications] **2000k:35002**
Nonlinear functional analysis and applications to differential equations ★ Nonlinear functional analysis and applications to differential equations. **2000b:35003**
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Nonlinear partial differential equations and applications ★ Nonlinear partial differential equations and applications. **2000c:35003**
Nonlinear PDE's, dynamics and continuum physics ★ Nonlinear PDE's, dynamics and continuum physics. **2000m:35003**
Novosibirsk ★ Неклассические уравнения математической физики. (Russian) [Nonclassical equations in mathematical physics] **2000b:35002**
Partial differential equations and their applications ★ Partial differential equations and their applications. **2000k:35003**
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Conference on Nonlinear Analysis ★ Proceedings of 1999 International Conference on Nonlinear Analysis. **2000m:35004**
Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2000g:35003**
Saint-Jean-de-Monts ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2000g:35003**
School:
Nonlinear Functional Analysis and Applications to Differential Equations ★ Nonlinear functional analysis and applications to differential equations. **2000b:35003**
Seminar:
Differential Equations *see* **Drábek, Pavel et al., 2000a:35001**
Inverse Problems and Related Topics ★ Inverse problems and related topics. **2000m:35002**
Partial Differential Equations ★ Seminaire: Équations aux Dérivées Partielles. 1998–1999. (French) [Seminar: Partial Differential Equations. 1998–1999] **2000g:35004**
South Hadley, MA ★ Nonlinear PDE's, dynamics and continuum physics. **2000m:35003**
Symmetry and analytic methods in mathematical physics ★ Симетрійні та аналітичні методи в математичній фізиці. (Ukrainian) [Symmetry and analytic methods in mathematical physics] **2000m:35005**
Symposium:
Nonlinear Evolution Equations and Applications ★ Hisenkei hatten hōteishiki to sono ōyō. (Japanese. English summary) [Nonlinear evolution equations and applications] **2000k:35002**
Variational Problems and Related Topics ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **2000e:35004**
— ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **2000m:35006**
Taipei ★ Proceedings of 1999 International Conference on Nonlinear Analysis. **2000m:35004**
Trieste ★ Nonlinear functional analysis and applications to differential equations. **2000b:35003**
Variational problems and related topics ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **2000e:35004**
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Advanced topics in theoretical fluid mechanics ★ Advanced topics in theoretical fluid mechanics. **2000a:76005**
All-Union Conference:
Integral Equations and Boundary Value Problems in Mathematical Physics ★ Интегральные уравнения и краевые задачи математической физики. Часть 1, 2. (Russian) [Integral equations and boundary value problems in mathematical physics. Part 1, 2] **2000k:00037**
American Mathematical Society Translations, Series 2 ★ Differential operators and spectral theory. **2000g:00083**
Analytical and computational methods in scattering and applied mathematics ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
Analyzing multiscale phenomena using singular perturbation methods ★ Analyzing multiscale phenomena using singular perturbation methods. **2000g:00044**
Ankara ★ Complex methods for partial differential equations. **2000k:00030**
Applications of solitons and symmetries ★ Applications of solitons and symmetries. **2000b:00004**
Applied nonlinear analysis ★ Applied nonlinear analysis. **2000g:00078**
Arles ★ Actes du 30ème Congrès d'Analyse Numérique: CANum'98. (French) [Proceedings of the 30th Congress of Numerical Analysis: CANum '98] **2000e:65011**
Athens ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 8. **2000g:00067**
Baltimore, MD ★ Analyzing multiscale phenomena using singular perturbation methods. **2000g:00044**
Birthday:
Amann, Herbert ★ Topics in nonlinear analysis. **2000g:00092**
Birman, Mikhail Shlëmovich ★ Differential operators and spectral theory. **2000g:00083**
Maz'ya, Vladimir G. ★ The Maz'ya anniversary collection. Vol. 1. **2000m:00049**
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Nečas, Jindřich ★ Applied nonlinear analysis. **2000g:00078**
Vainikko, Gennadi ★ Differential and integral equations: theory and numerical analysis. **2000d:00019**
Brussels ★ Integrability and chaos in discrete systems. **2000g:00060**
Calculus of variations and differential equations ★ Calculus of variations and differential equations. **2000e:49002**
Calculus of variations and geometric evolution problems *see* **Bethuel, Fabrice et al.**, 2000g:00042
Canberra ★ Geometric approaches to differential equations. **2000m:00019**
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Chelyabinsk ★ Точно решаемые модели математической физики. (Russian) [Exactly solvable models in mathematical physics] **2000e:81006**
Chemnitz ★ Optimal control of partial differential equations. **2000g:00064**
Chicago, IL ★ Harmonic analysis and partial differential equations. **2000j:00032**
Complex analysis and microlocal analysis ★ Complex analysis and microlocal analysis. **2000k:00028**
Complex methods for partial differential equations ★ Complex methods for partial differential equations. **2000k:00030**
Conference:
Applied Mathematics ★ Proceedings of the 15th Annual Conference of Applied Mathematics. **2000k:00043**
— ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
Calculus of Variations and Related Topics ★ Calculus of variations and differential equations. **2000e:49002**
Control and its Applications ★ Control of partial differential equations. **2000j:00021**
Differential Equations and Applications ★ Differential equations and applications. (Russian) **2000m:34003**
Differential Equations and their Applications ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications]
Dynamical Systems and Differential Equations ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
— ★ Dynamical systems and differential equations. Vol. II. **2000e:00021**
Exactly Solvable Models in Mathematical Physics ★ Точно решаемые модели математической физики. (Russian) [Exactly solvable models in mathematical physics] **2000e:81006**
Functional Analysis, Partial Differential Equations, and Applications ★ The Maz'ya anniversary collection. Vol. 1. **2000m:00049**
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Harmonic Analysis and Partial Differential Equations ★ Harmonic analysis and partial differential equations. **2000j:00032**
Hyperbolic Problems: Theory, Numerics, Applications ★ Hyperbolic problems: theory, numerics, applications. Vol. I. **2000e:00022**
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Integral Methods in Science and Engineering ★ Integral methods in science and engineering. **2000k:00038**
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Spectral Theory and Geometry ★ Spectral theory and geometry. **2000i:58003**
Congress:
Free Boundary Problems: Theory and Applications ★ Free boundary problems: theory and applications. **2000c:00033**
Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 8. **2000g:00067**
Numerical Analysis ★ Actes du 30ème Congrès d'Analyse Numérique: CANum'98. (French) [Proceedings of the 30th Congress of Numerical Analysis: CANum '98] **2000e:65011**
Conjugate equations and perturbation algorithms in problems of mathematical physics ★ Сопряженные уравнения и алгоритмы возмущений в задачах математической физики. (Russian) [Conjugate equations and perturbation algorithms in problems of mathematical physics] **2000c:00022**
Contemporary Mathematics ★ Geometric aspects of partial differential equations. **2000e:58001**
Control of partial differential equations ★ Control of partial differential equations. **2000j:00021**
Crete ★ Free boundary problems: theory and applications. **2000c:00033**
Differential and integral equations: theory and numerical analysis ★ Differential and integral equations: theory and numerical analysis. **2000d:00019**
Differential equations and applications ★ Differential equations and applications. (Russian) **2000m:34003**
Differential equations and their applications ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications]
Differential operators and spectral theory ★ Differential operators and spectral theory. **2000g:00083**
Dynamical systems and differential equations ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
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Edinburgh ★ Spectral theory and geometry. **2000i:58003**
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Festschrift:
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Free boundary problems: theory and applications ★ Free boundary problems: theory and

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Freiburg/Littenweiler ★ An introduction to recent developments in theory and numerics for conservation laws. **2000g:00061**
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Geometric aspects of partial differential equations ★ Geometric aspects of partial differential equations. **2000e:58001**
Haifa ★ Calculus of variations and differential equations. **2000e:49002**
Harmonic analysis and nonlinear partial differential equations ★ Chōwa kaisekigaku to hisenkei hembibun hōteishiki. (Japanese) [Harmonic analysis and nonlinear partial differential equations] **2000a:00019**
— ★ Harmonic analysis and nonlinear partial differential equations. **2000k:00035**
Harmonic analysis and partial differential equations ★ Harmonic analysis and partial differential equations. **2000j:00032**
Houghton, MI ★ Integral methods in science and engineering. **2000k:00038**
Hyperbolic problems: theory, numerics, applications ★ Hyperbolic problems: theory, numerics, applications. Vol. I. **2000e:00022**
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  Kleinman, Ralph Ellis ★ Analytical and computational methods in scattering and applied mathematics. **2000m:00045**
Methods for solving conditionally well-posed problems ★ Методы решения условно-корректных задач. (Russian) [Methods for solving conditionally well-posed problems] **2000b:00007**
Minisymposium:
  Spectral Invariants, Heat Equation Approach ★ Geometric aspects of partial differential equations. **2000e:58001**
Minneapolis, MN ★ Pattern formation in continuous and coupled systems. **2000c:37001**
Montréal, QC ★ Nonlinear analysis, differential equations and control. **2000a:49003**
NATO Advanced Study Institute:
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Nonlinear theory of generalized functions ★ Nonlinear theory of generalized functions. **2000a:00024**
Optimal control of partial differential equations ★ Optimal control of partial differential equations. **2000g:00064**
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Recent trends in nonlinear analysis ★ Recent trends in nonlinear analysis. **2000m:00051**
Roskilde ★ Geometric aspects of partial differential equations. **2000e:58001**
Rostock ★ The Maz'ya anniversary collection. Vol. 1. **2000m:00049**
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Saransk ★ Дифференциальные уравнения и их приложения. (Russian) [Differential equations and their applications]
School:
  Mathematical Theory in Fluid Mechanics ★ Advanced topics in theoretical fluid mechanics. **2000a:76005**
  Theory and Numerics for Conservation Laws ★ An introduction to recent developments in theory and numerics for conservation laws. **2000g:00061**
Seminar:
  Nonlinear Analysis, Differential Equations and Control ★ Nonlinear analysis, differential equations and control. **2000a:49003**
Session:
  Calculus of Variations and Geometric Evolution Problems *see* **Bethuel, Fabrice et al., 2000g:00042**
  Stochastic PDE's and Kolmogorov Equations in Infinite Dimensions *see* **Krylov, Nicolai V. et al., 2000g:60004**
Singularity theory and differential equations ★ Singularity theory and differential equations. **2000m:00041**
Spectral theory and geometry ★ Spectral theory and geometry. **2000i:58003**
Springfield, MO ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
— ★ Dynamical systems and differential equations. Vol. II. **2000e:00021**
St. Petersburg ★ Differential equations and applications. (Russian) **2000m:34003**
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Symposium:
  Complex Analysis and Microlocal Analysis ★ Complex analysis and microlocal analysis. **2000k:00028**
  Harmonic Analysis and Nonlinear Partial Differential Equations ★ Chōwa kaisekigaku to hisenkei hembibun hōteishiki. (Japanese) [Harmonic analysis and nonlinear partial differential equations] **2000a:00019**
  — ★ Harmonic analysis and nonlinear partial differential equations. **2000k:00035**
  Nonlinear Evolution Equations and their Applications ★ Nonlinear evolution equations and their applications. **2000h:00010**
  Singularity Theory and Differential Equations ★ Singularity theory and differential equations. **2000m:00041**
  Trends in Applications of Mathematics to Mechanics ★ Trends in applications of mathematics to mechanics. **2000j:00029**
Topics in nonlinear analysis ★ Topics in nonlinear analysis. **2000g:00092**
Trends in applications of mathematics to mechanics ★ Trends in applications of mathematics to mechanics. **2000j:00029**
Vienna ★ Nonlinear theory of generalized functions. **2000a:00024**
Vladivostok ★ Интегральные уравнения и краевые задачи математической физики. Часть 1, 2. (Russian) [Integral equations and boundary value problems in mathematical physics. Part 1, 2] **2000k:00037**
Workshop:
  Nonlinear Theory of Generalized Functions ★ Nonlinear theory of generalized functions. **2000a:00024**
  Pattern Formation in Continuous and Coupled Systems ★ Pattern formation in continuous and coupled systems. **2000c:37001**
  Recent Trends in Complex Methods for Partial Differential Equations ★ Complex methods for partial differential equations. **2000k:00030**
Zürich ★ Hyperbolic problems: theory, numerics, applications. Vol. I. **2000e:00022**
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35Axx General theory

35A05 General existence and uniqueness theorems

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Le Van Hap *see* **Trần Đứ'c Vân et al., 2000c:35004**
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Ninomiya, Haruki A necessary condition of local integrability for a nowhere-zero complex vector field in $\mathbf{R}^2$. (English summary) **2000b:35004**
Nishitani, Tatsuo Note on a paper of N. Iwasaki. **2000k:35004**
Tasmambetov, Zh. N. Normally regular solutions of a system of second-order partial differential equations. (Russian. English, Russian and Kazakh summaries) **2000f:35003**
Tataru, Daniel Unique continuation for operators with partially analytic coefficients. (English summary) **2000e:35005**
Trần Đứ'c Vân (*with* Nguyen Duy Thai Son; Le Van Hap) Partial differential inequalities of Haar type and their applications to the uniqueness problem. (English summary) **2000c:35004**

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Colombini, Ferruccio (*with* Orrú, Nicola) Well-posedness in C^∞ for some weakly hyperbolic equations. **2000k:35171**
Dencker, Nils Estimates and solvability. **2000f:35157**
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Goĭ, T. P. (*with* Ptashnik, B. I.) Nonlocal boundary value problems for systems of linear partial differential equations. (Ukrainian. English and Ukrainian summaries) **2000b:35025**
Karch, Grzegorz Scaling in nonlinear parabolic equations. (English summary) **2000h:35068**
Kinoshita, Tamotu On the wellposedness in the Gevrey classes of the Cauchy problem for weakly hyperbolic equations whose coefficients are Hölder continuous in t and degenerate in $t = T$. **2000a:35151**
Langenbruch, Michael Surjective partial differential operators on Gevrey classes and their localizations at infinity. **2000c:35020**
— Surjectivity of partial differential operators on Gevrey classes and extension of regularity. **2000c:35019**
Lerner, Nicolas Perturbation and energy estimates. (English and French summaries) **2000b:35289**

— (*with* Saint Raymond, X.) Une inégalité de Gårding sur une variété à bord. (English summary) [A Gårding inequality on an open manifold] **2000a:35267**
Le Van Hap On the uniqueness of global semiclassical solutions of the Cauchy problem for weakly coupled systems. **2000a:35262**
Lindblad, Hans Counterexamples to local existence for quasilinear wave equations. **2000a:35171**
Luo, Zhuangchu On non-linear totally characteristic equations with several space variables.
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Rosay, Jean Pierre CR functions vanishing on open sets. (Almost) complex structures and Cohen's example. (English summary) **2000d:32053**
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Taskinen, Jari Diffusion equation with a general polynomial perturbation. **2000m:35095**
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35A07 Local existence and uniqueness theorems [see also 35Hxx, 35Sxx]

Chen, Hua[1] (*with* Tahara, Hidetoshi) On totally characteristic type non-linear partial differential equations in the complex domain. (English summary) **2000k:35005**
Müller, Detlef (*with* Peloso, Marco M.; Ricci, Fulvio) On local solvability for complex coefficient differential operators on the Heisenberg group. (English summary) **2000h:35003**
Ninomiya, Haruki A necessary and sufficient condition of local integrability. **2000m:35007**
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Peloso, Marco M. *see* **Müller, Detlef et al., 2000h:35003**
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Zhou, Ji Dong Local solvability of boundary value problems for systems of pseudodifferential equations. (Chinese. English and Chinese summaries)
Zweibel, J. Overdetermined systems of linear partial differential operators with normal principal symbols. (English summary) **2000i:35145**

35A08 Fundamental solutions

Kipriyanov, I. A. Fundamental solution of B-hyperbolic operators. (Russian) (*see* **2000h:47001**)
Shimakura, Norio Fundamental solutions to partial differential equations. (Japanese) **2000c:35005**
Zili, Mounir Construction d'une solution fondamentale d'une équation aux dérivées partielles à coefficients constants par morceaux. (English and French summaries) [Construction of a fundamental solution of a partial differential equation with piecewise constant coefficients] **2000i:35003**

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Balakrishnan, Karthik (*with* Ramachandran, Palghat A.) The method of fundamental solutions for linear diffusion-reaction equations. (English summary) **2000k:35136**
Barros-Neto, J. (*with* Gel′fand, Izrail′ Moiseevich) Fundamental solutions for the Tricomi operator. **2000e:35162**
Beals, Richard W. (*with* Gaveau, Bernard; Greiner, Peter; Kannai, Yakar) Exact fundamental solutions for a class of degenerate elliptic operators. **2000c:35079**
— (*with* Greiner, Peter; Gaveau, Bernard) Green's functions for some highly degenerate elliptic operators. (English summary) **2000f:35057**
Berezan, L. P. (*with* Ĭvasishen, S. D.) The fundamental matrix of solutions of the Cauchy problem for $\vec{2b}$-parabolic systems with degenerations on the initial hyperplane. (Ukrainian. English summary) **2000g:35119**
Błocki, Zbigniew Regularity of the fundamental solution for the Monge-Ampère operator. **2000g:35044**
— (*with* Thorbiörnson, Johan) On the fundamental solution for the real Monge-Ampère operator. (English summary) **2000a:35050**
Bondarenko, V. G. (*with* Novikov, A. N.) On the derivative of the heat kernel. (Russian. English, Russian and Ukrainian summaries)
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Choe, Hi Jun On the fundamental solutions to Stokes equations. (English summary) **2000b:35195**
Coleman, Matthew P. The fundamental solution for a consistent complex model of the shallow shell equations. (English summary) **2000g:74049**
D'Acunto, Berardino (*with* Renno, Pasquale) On the operator $\varepsilon\partial_{xxt} + c^2\partial_{xx} - \partial_{tt}$ in general domains. (English summary) **2000b:35255**
Dron′, V. S. (*with* Ĭvasishen, S. D.) Properties of fundamental solutions and uniqueness theorems for solutions of the Cauchy problem for a class of ultraparabolic equations. (Ukrainian. English and Ukrainian summaries) **2000i:35110**
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— (*with* Ĕĭdel′man, S. D.) $2b$-parabolic equations with degeneration in some of the variables. (Russian) **2000a:35144**
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— (*with* Sugano, Satoko) A remark on estimates for uniformly elliptic operators on weighted L^p spaces and Morrey spaces. (English summary) **2000k:35064**
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Laurençot, Philippe A remark on the uniqueness of fundamental solutions to the p-Laplacian equation, $p > 2$. (English summary) **2000b:35064**
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Shen, Zhongwei On fundamental solutions of generalized Schrödinger operators. (English summary) **2000j:35055**
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Xu, Xiaowei Cauchy problems related to differential operators with coefficients of generalized Hermite operators. **2000d:35092**
Yajima, Kenji Fundamental solutions of time-dependent Schrödinger equations. (Japanese) **2000c:81065**
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35A10 Cauchy-Kovalevskaya theorems

Titov, S. S. An analogue of Kovalevskaya's theorem for linear evolution equations. (Russian. Russian summary) **2000k:35007**
Vaillant, Jean Léon Conditions invariantes sur les systèmes d'équations aux dérivées partielles et problème de Cauchy. [Invariant conditions for systems of partial differential equations and the Cauchy problem] (*see* **2000k:00028**)

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— Analytic solutions to the first order partial differential equations with time delays at the derivative. (English summary) **2000k:35278**
Chen, Hua[1] (*with* Tahara, Hidetoshi) On totally characteristic type non-linear partial differential equations in the complex domain. (English summary) **2000k:35005**
Cicognani, Massimo On the well posedness in Gevrey classes and the propagation of analyticity for strictly hyperbolic equations which are Hölder continuous with respect to time.
Ghisi, Marina A note on the abstract Cauchy-Kovalevskaya theorem. (English summary) **2000d:34124**
Gorbachuk, M. L. An operator approach to the Cauchy-Kovalevskaya theorem. (Ukrainian. English, Russian and Ukrainian summaries) **2000e:34098**

Heersink, Rudolf Some remarks on the possibility of solving Cauchy-Kowalewski problems in spaces of (ν, μ)-generalized analytic functions. **2000m:30058**
Leszczyński, Henryk *see* **Augustynowicz, Antoni et al., 2000h:35159**
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35A15 Variational methods

Flucher, Martin ★ Variational problems with concentration. (English summary) **2000j:35003**

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Christodoulou, Demetrios Symplectic geometry and partial differential equations. **2000a:58052**
Groli, A. (*with* Marino, Antonio; Saccon, C.) Variational theorems of mixed type and asymptotically linear variational inequalities. **2000b:49017**
Jordan, Richard (*with* Kinderlehrer, David; Otto, Felix) The variational formulation of the Fokker-Planck equation. (English summary) **2000b:35258**
Kikuchi, Koji Constructing weak solutions in a direct variational method and an application of varifold theory. **2000a:35137**
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Lupo, Daniela (*with* Payne, Kevin R.) A dual variational approach to a class of nonlocal semilinear Tricomi problems. (English summary) **2000k:35212**
Marino, Antonio *see* **Groli, A. et al., 2000b:49017**
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Variational Problems and Related Topics ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **2000e:35004**
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35A18 Wave front sets

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Vasy, András Propagation of singularities in many-body scattering in the presence of bound states. (English summary) **2000j:81284**

35A20 Analytic methods, singularities

Broĭtman, R. P. Normal correct restrictions of the operator $2\partial/\partial\overline{z}$ in arbitrary domains. (Russian)
Budney, Leonard (*with* Iwaniec, Tadeusz; Stroffolini, Bianca) Removability of singularities of A-harmonic functions. (English summary) **2000c:35006**
Çelebi, A. Okay (*with* Şengül, Sare) Differential-operator solutions for complex partial differential equations. (English summary) **2000m:35008**
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Gourdin, Daniel (*with* Mechab, Mustapha) Temps de vie des solutions d'un problème de Cauchy non linéaire. (English and French summaries) [Life span of the solutions to a nonlinear Cauchy problem] **2000j:35004**
Huang, Sha *see* **Qiao, Yu Ying, 2000a:35004**
Igari, Katsuju Propagation of singularities in the ramified Cauchy problem for a class of operators with non-involutive multiple characteristics. (English summary) **2000k:35008**
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Klyus, Ĭ. S. (*with* Ptashnik, B. Ĭ.) A multipoint problem with complex coefficients for partial differential equations not solved with respect to the highest derivative. (Ukrainian. English, Russian and Ukrainian summaries) **2000f:35004**
Korovina, Mariya Viktorovna A proof of the existence of an infinitely continuable solution of the Cauchy problem for a class of second-order differential equations in the space of complex-analytic functions. (Russian. Russian summary) **2000a:35002**
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Okada, Yasunori (*with* Yamane, Hideshi) Characteristic Cauchy problems in the complex domain. **2000a:35003**
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— *see also* **Çelebi, A. Okay, 2000m:35008**
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Tahara, Hidetoshi On the uniqueness theorem for nonlinear singular partial differential equations. (English summary) **2000a:35005**
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Urabe, Jiichiroh Singular Cauchy problem for a certain linear and 2nd order equation. (English summary) **2000g:35006**
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da Costa Gomes, Elizabeth F. Solutions of the equation $f_y u_x - f_x u_y = g$. (English and French summaries) **2000a:32060**
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Hazi, Mohammed About the Gevrey regularity of the solutions of Euler's equation. (Arabic. English and Arabic summaries) **2000b:35016**
Kichenassamy, Satyanad WTC expansions and nonintegrable equations. (English summary) **2000f:34014**
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35A21 Propagation of singularities

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35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [see also 32C38, 58J15]

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35A30 Geometric theory, characteristics, transformations [see also 58J70, 58J72]

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35Bxx Qualitative properties of solutions

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35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)

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35Cxx Representations of solutions

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35Dxx Generalized solutions of partial differential equations

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35D05 Existence of generalized solutions

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Mitrea, Marius (*with* Taylor, Michael E.) Boundary layer methods for Lipschitz domains in Riemannian manifolds. (English summary) **2000b:35050**
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Zampieri, Giuseppe Geometric interpretation of the Phragmén-Lindelöf estimates. (English summary) **2000c:35014**

35E99 None of the above, but in this section

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Lucht, W. (*with* Strehmel, Karl; Eichler-Liebenow, C.) Indexes and special discretization methods for linear partial differential algebraic equations. (English summary) **2000e:35017**
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Fonseca, Irene (*with* Müller, Stefan C.) $\mathscr{A}$-quasiconvexity, lower semicontinuity, and Young measures. (English summary) **2000j:49020**
Müller, Stefan C. *see* **Fonseca, Irene, 2000j:49020**
Obaid, Foiad Sobkhi On the limit polynomial for solving a fourth-order elliptic equation with constant coefficients. (Russian. English and Ukrainian summaries) **2000d:35040**
Zili, Mounir Construction d'une solution fondamentale d'une équation aux dérivées partielles à coefficients constants par morceaux. (English and French summaries) [Construction of a fundamental solution of a partial differential equation with piecewise constant coefficients] **2000i:35003**
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35Fxx General first-order equations and systems

35F05 General theory of linear first-order PDE

Egorov, A. A. On the stability of classes of Lipschitz solutions of systems of first-order linear differential equations. (Russian. Russian summary) **2000h:35023**
Kasymova, D. K. Asymptotic behavior of the solution of the Cauchy problem for a singularly perturbed linear system of first-order partial differential equations. (Russian. English, Russian and Kazakh summaries)
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Izobov, N. A. On the existence of a linear Pfaffian system with a countable number of distinct characteristic sets of solutions. (Russian. Russian summary) **2000k:35014**
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Ninomiya, Haruki A necessary and sufficient condition of local integrability. **2000m:35007**
— A necessary condition of local integrability for a nowhere-zero complex vector field in $\mathbf{R}^2$. (English summary) **2000b:35004**
Nizhnik, L. P. (*with* Tarasov, V. G.) A scattering problem for a multidimensional system of first-order partial differential equations. (Russian. English and Ukrainian summaries) **2000k:35229**
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35F10 Initial value problems for linear first-order PDE, linear evolution equations

Capuzzo-Dolcetta, Italo (*with* Perthame, Benoît) On some analogy between different approaches to first order PDE's with nonsmooth coefficients. (English summary) **2000g:35025**
Dawidowicz, Antoni Leon (*with* Haribash, Najemedin) On the periodic solutions of von Foerster type equation. **2000i:35017**
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Heersink, Rudolf (*with* Malonek, Helmuth R.) On initial value problems for quaternionic valued functions. (English summary) **2000m:35036**
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Tutschke, Wolfgang Solution of initial value problems for first order systems using matrix notation. (English summary) (*see* **2000j:00034**)

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Wen, Guo Chun The Riemann-Hilbert problem for first order complex equations of mixed type. (English summary) **2000f:35043**

35F15 Boundary value problems for linear first-order PDE

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Yamane, Hideshi Nonlinear singular first order partial differential equations whose characteristic exponent takes a positive integral value. (Japanese) (*see* **2000k:00028**)
Zhura, N. Boundary value problems for a system of first order equations of a principal type in the plane. (English summary) **2000b:35021**

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Demidenko, G. V. (*with* Yanov, S. I.) On mixed boundary value problems in a quarter-space for a class of systems not of Cauchy-Kovalevskaya type. (Russian. Russian summary) **2000a:35025**
Shilinets, V. A. *see* **Stel'mashuk, N. T., 2000k:30067**
Stel'mashuk, N. T. (*with* Shilinets, V. A.) Solution of a boundary value problem for a system of differential equations in formal derivatives. (Russian. English and Russian summaries) **2000k:30067**
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35F20 General theory of nonlinear first-order PDE

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Izumiya, Shyuichi A survey on singularities of solutions for first order partial differential equations. (*see* **2000m:00041**)
Koike, Shigeaki Introduction to the viscosity solution theory of first order PDEs. (*see* **2000m:00041**)
Kong, De-Xing A necessary and sufficient condition for the diagonalization of multi-dimensional quasilinear systems. (English summary) **2000f:35022**
Le Van Hap Uniqueness of global semiclassical solutions for some systems of first-order nonlinear partial differential equations. (English summary) **2000h:35024**
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Yamane, Hideshi Formal solutions to nonlinear singular first-order partial differential equations and meromorphic coefficients. (Japanese. Japanese summary) (*see* **2000j:00026**)
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Atseska, Roza *see* **Dimitrovski, Dragan et al., 2000k:30059**
Barles, Guy ★ Solutions de viscosité des équations de Hamilton-Jacobi. (French. French summary) [Viscosity solutions of Hamilton-Jacobi equations] **2000b:49054**
Calsina Ballesta, Ángel (*with* Saldaña, Joan) Global dynamics and optimal life history of a structured population model. (English summary) **2000g:92012**
Chentsov, A. G. *see* **Subbotin, Andrei I., 2000m:49034**
Concordel, Marie C. Periodic homogenisation of Hamilton-Jacobi equations. II. Eikonal equations. (English summary) **2000c:35012**
Dacorogna, Bernard (*with* Marcellini, Paolo) ★ Implicit partial differential equations. (English summary) **2000f:35005**
Dimitrovski, Dragan (*with* Atseska, Roza; Ilievska, Aneta) Approximately equal Teodorescu integrals. (Macedonian. English and Macedonian summaries) **2000k:30059**
Edarh-Bossou, T. K. *see* **Schmidt-Laine, C., 2000i:35226**
Falcone, Maurizio (*with* Giorgi, Tiziana) An approximation scheme for evolutive Hamilton-Jacobi equations. (English summary) **2000f:49028**
Felmer, Patricio L. (*with* Wang, Zhi Qiang[1]) Multiplicity for symmetric indefinite functionals: application to Hamiltonian and elliptic systems. **2000i:37095**
Fu, Yi Ping *see* **Zhou, Li[1] et al., (2000c:35003)**
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Ishii, Hitoshi Homogenization of the Cauchy problem for Hamilton-Jacobi equations. (English summary) **2000h:49047**
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Strömberg, Thomas On viscosity solutions of the Hamilton-Jacobi equation. (English summary) **2000k:49039**
Struwe, Michael ★ Variational methods. **2000i:49001**
Subbotin, Andrei I. (*with* Chentsov, A. G.) An iterative procedure for constructing minimax and viscosity solutions of the Hamilton-Jacobi equations, and its generalizations. (Russian. Russian summary) **2000m:49034**
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35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations

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Chew, Tuan Seng (*with* van-Brunt, B.; Wake, G. C.) First-order partial differential equations and Henstock-Kurzweil integrals. (English summary) **2000j:35036**
Giga, Yoshikazu (*with* Sato, Moto-Hiko) Semicontinuous solutions for Hamilton-Jacobi equations with general Hamiltonians. (*see* **2000m:00041**)
Ishii, Hitoshi Hopf-Lax formulas for Hamilton-Jacobi equations with semicontinuous initial data. (*see* **2000m:00041**)
Loreti, Paola (*with* Vergara Caffarelli, G.) Variational solutions of coupled Hamilton-Jacobi equations. (English summary) **2000j:35037**
Panov, E. Yu. On the Cauchy problem for a first-order quasilinear equation on a manifold. (Russian. Russian summary) **2000d:35020**
Sato, Moto-Hiko *see* **Giga, Yoshikazu, (2000m:00041)**
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Bouzoubaa, I. (*with* Hamdache, Kamel; Noussair, A.) Global existence of solutions to a coupled coagulation system. (English summary) **2000k:82070**
Hamdache, Kamel *see* **Bouzoubaa, I. et al., 2000k:82070**
Leszczyński, Henryk Existence of CC-solutions for strongly coupled nonlinear systems of first-order partial differential equations with functional dependence. (English summary) **2000c:35240**
Le Van Hap *see* **Trần Đú'c Vân et al., 2000c:35004**
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35F30 Boundary value problems for nonlinear first-order PDE

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Pianigiani, Giulio *see* **De Blasi, Francesco Saverio, 2000d:35021**
Romanenko, Elena *see* **Sharkovs'kiĭ, Aleksandr, 2000i:35018**
Sharkovs'kiĭ, Aleksandr (*with* Romanenko, Elena) Asymptotic properties of the solutions of a class of boundary value problems. (Ukrainian. English summary) **2000i:35018**

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Horie, Kazuo (*with* Ishii, Hitoshi) Homogenization of Hamilton-Jacobi equations on domains with small scale periodic structure. (English summary) **2000d:35014**
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Limaco Ferrel, J. (*with* Medeiros, L. A.) Kirchhoff-Carrier elastic strings in noncylindrical domains. (English summary) **2000j:35255**
Medeiros, L. A. *see* **Limaco Ferrel, J., 2000j:35255**
Shilinets, V. A. *see* **Stel'mashuk, N. T., 2000k:30067**
Stel'mashuk, N. T. (*with* Shilinets, V. A.) Solution of a boundary value problem for a system of differential equations in formal derivatives. (Russian. English and Russian summaries) **2000k:30067**

35F99 None of the above, but in this section

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Godunov, Sergeĭ Konstantinovich (*with* Mikhaĭlova, T. Yu.) ★ Представления группы вращений и сферические функции. (Russian. Russian summary) [Representations of the rotation group, and spherical functions] **2000e:22010**
Mendoza, Gerardo A. *see* **Berhanu, S., 2000e:32047**
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Wagner, Marcus Pontryagin's maximum principle for Dieudonné-Rashevsky type problems involving Lipschitz functions. (English summary) **2000h:49043**

35Gxx General higher-order equations and systems

35G05 General theory of linear higher-order PDE

Altın, Abdullah Radial type solutions for a class of third order equations and their iterates. (English summary) **2000b:35023**
Blagodat·skaya, E. B. *see* **Sidorov, Nikolaĭ Aleksandrovich et al., (2000k:65007)**
Campbell, Stephen L. (*with* Marszalek, W.) The index of an infinite-dimensional implicit system. (English summary) **2000h:35026**
Citti, Giovanna (*with* Montanari, Annamaria) Regularity properties of Levi flat graphs. (English and French summaries) **2000m:35037**
Cui, Yuan Shun Dyadic Green function solutions of a class of generalized vector partial differential equations and their application. (Chinese. English and Chinese summaries) **2000k:35048**
Deng, Lihu *see* **Yang, Jianhui et al., 2000k:35051**
Kaya, Dogan A new approach to the telegraph equation: an application of the decomposition method. (English summary) **2000k:35049**
Klyus, Ĭ. S. (*with* Ptashnik, B. Ĭ.) A multipoint problem for partial differential equations not solved with respect to the highest time derivative. (Ukrainian. English and Ukrainian summaries) **2000m:35038**
Liu, Yong Qing *see* **Yang, Jianhui et al., 2000k:35051**
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Mokeĭchev, A. V. *see* **Mokeĭchev, V. S., 2000b:35024** *and* **2000k:35050**
Mokeĭchev, V. S. (*with* Mokeĭchev, A. V.) A new approach to the theory of linear problems for systems of partial differential equations. I. (Russian) **2000b:35024**
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Voroshik, N. Ĭ. On the limit properties in the half-plane of solutions of differential equations that have different conditions for differentiability on coordinates. (Ukrainian) (*see* **2000m:00029**)
Yang, Jianhui (*with* Deng, Lihu; Liu, Yong Qing) Initial-value problem of singular distributed parameter system. (English and Chinese summaries) **2000k:35051**

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Orsingher, Enzo (*with* Zhao, Xue Lei) Iterated processes and their applications to higher order differential equations. (English summary) **2000e:60136**
Pokrovskiĭ, A. V. Mean value theorems for solutions of linear partial differential equations. (Russian. Russian summary) **2000a:35009**
Tahara, Hidetoshi On the uniqueness theorem for nonlinear singular partial differential equations. (*see* **2000k:00028**)
Zhao, Xue Lei *see* **Orsingher, Enzo, 2000e:60136**

35G10 Initial value problems for linear higher-order PDE, linear evolution equations

Hasegawa, Yukiko On the C^∞-Goursat problem for some second order equations with variable coefficients. **2000a:35024**
Krutitskiĭ, P. A. Exterior initial-boundary value problem for an evolution equation in a multiply connected domain. (Russian. Russian summary) **2000j:35038**
Sakamoto, Reiko Well-posedness of Cauchy problems for linear evolution operators with time dependent coefficients. **2000j:35039**
Schulze, Bert-Wolfgang *see* **Sternin, B. Yu. et al., 2000e:35018**
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35G15 Boundary value problems for linear higher-order PDE

Demidenko, G. V. (*with* Yanov, S. I.) On mixed boundary value problems in a quarter-space for a class of systems not of Cauchy-Kovalevskaya type. (Russian. Russian summary) **2000a:35025**
Goĭ, T. P. A problem with nonlocal conditions for a partial differential equation perturbed by a nonlinear integro-differential term. (Ukrainian. English and Russian summaries) **2000a:35026**
— (*with* Ptashnik, B. Ĭ.) Nonlocal boundary value problems for systems of linear partial differential equations. (Ukrainian. English and Ukrainian summaries) **2000b:35025**
Ĭl'kīv, V. S. Investigation of a nonlocal boundary value problem for a partial differential equation by means of the minimization method in Sobolev spaces. (Ukrainian. English and Russian summaries) **2000c:35023**
Kim, D. U. Solution of a boundary value conjugation problem by the method of dual integral equations. (Russian. Russian summary) (*see* **2000k:00037**)
Lopushans'ka, G. P. Fundamental boundary value problems for an equation in fractional derivatives. (Ukrainian. English and Ukrainian summaries) **2000f:35024**
Nikol'skiĭ, S. M. A case when the solution of a boundary value problem is a polynomial. (Russian) **2000h:35027**
Ptashnik, B. Ĭ. *see* **Goĭ, T. P., 2000b:35025**
Voroshik, N. Ĭ. Limit properties of solutions of boundary value problems for some higher-order equations. (Ukrainian. English summary)
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Uchida, Motoo On boundary value problems for micro-hyperbolic systems of differential equations. **2000c:58042**
Zadorozhna, N. M. *see* **Simotyuk, M. M., 2000e:35009**

35G20 General theory of nonlinear higher-order PDE

Egorev, Yu. V. (*with* Nguyễn Minh Chu'o'ng) On some semilinear boundary value problems for singular integrodifferential equations. (Russian) **2000j:35040**
Hu, Jian Qiang (*with* Zhao, Hui Jiang) Existence and convergence of solutions to nonlinear dispersion equations. (Chinese. English and Chinese summaries) **2000b:35026**
Kopylov, Anatoliĭ Pavlovich On the W_q^l-regularity of solutions of systems of partial differential equations that are locally close to elliptic systems of linear equations with constant coefficients. (Russian)
Li, Zhi Bin[1] *see* **Wang, Ming Liang et al., 2000k:35052**
Nguyễn Minh Chu'o'ng *see* **Egorev, Yu. V., 2000j:35040**
Poggiolini, Laura Almost everywhere solutions of partial differential equations and systems of any order. (English summary) **2000h:35028**
Tsarëv, S. P. On Darboux-integrable nonlinear partial differential equations. (Russian. Russian summary) **2000j:35041**
Wang, Ming Liang (*with* Li, Zhi Bin[1]; Zhou, Yu Bin) The homogeneous balance principle and its applications. (Chinese. English and Chinese summaries) **2000k:35052**
Zhao, Hui Jiang *see* **Hu, Jian Qiang, 2000b:35026**
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Items with secondary classifications in 35G20

Abchir, Chakib Existence and nonexistence results of solutions of an equation with jumping nonlinearities. I. (English summary) **2000k:47095**
Dacorogna, Bernard (*with* Marcellini, Paolo) ★ Implicit partial differential equations. (English summary) **2000f:35005**
Huan, Zhong Dan *see* **Liu, Chang He, 2000b:35020**
Liu, Chang He (*with* Huan, Zhong Dan) Existence of viscosity solutions to initial value problems for a class of second-order partial differential equations. (Chinese. English and Chinese summaries) **2000b:35020**
Marcellini, Paolo *see* **Dacorogna, Bernard, 2000f:35005**
Tozaki, Yoshiharu On non linear partial differential equations which have a solution of a form $t^{-\beta} f^{\ell}(t^{-\lambda} x)$. (English summary) **2000k:35042**

35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations

Rudkevich, E. A. On the Cauchy problem for a third-order quasilinear partial differential equation. (Russian. English and Russian summaries) **2000m:35039**

Items with secondary classifications in 35G25

Cohn, Steve (*with* Ledder, Glenn; Logan, J. David) Analysis of a filtration model in porous media. (English summary) **2000j:76136**
Joly, Jean-Luc (*with* Métivier, Guy; Rauch, Jeffrey) Caustics for dissipative semilinear oscillations. (English summary) **2000i:35115**
Ledder, Glenn *see* **Cohn, Steve et al., 2000j:76136**
Logan, J. David *see* **Cohn, Steve et al., 2000j:76136**
Métivier, Guy *see* **Joly, Jean-Luc et al., 2000i:35115**
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35G30 Boundary value problems for nonlinear higher-order PDE

Dacorogna, Bernard (*with* Marcellini, Paolo) On the solvability of implicit nonlinear systems in the vectorial case. (English summary) **2000m:35041**
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35Hxx Close-to-elliptic equations

35H10 Hypoelliptic equations

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35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [see also 31Axx, 31Bxx]

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35J15 General theory of second-order, elliptic equations

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35J20 Variational methods for second-order, elliptic equations

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35J30 General theory of higher-order, elliptic equations [see also 31A30, 31B30]

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35J35 Variational methods for higher-order, elliptic equations

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35J40 Boundary value problems for higher-order, elliptic equations

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35J45 General theory of elliptic systems of PDE

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35J50 Variational methods for elliptic systems

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35J55 Boundary value problems for elliptic systems

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Mitrea, Marius The oblique derivative problem for general elliptic systems in Lipschitz domains. (*see* **2000k:00038**)
Nazarov, Sergei A. Asymptotics of the solution to the Neumann problem in a domain with singular point of peak exterior type. (English summary) **2000d:35044**
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35J67 Boundary values of solutions to elliptic PDE

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35J85 Unilateral problems and variational inequalities for elliptic PDE [see also 35R35, 49J40]

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35K10 General theory of second-order, parabolic equations

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Giga, Yoshikazu (*with* Matsui, Shin'ya; Shimizu, Yasuyuki) On estimates in Hardy spaces for the Stokes flow in a half space. **2000e:35076**
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— (*with* Cui, Bao Tong) A necessary and sufficient condition for oscillation of parabolic equations of neutral type. (English and Chinese summaries)
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35K15 Initial value problems for second-order, parabolic equations

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Denisov, V. N. On necessary and sufficient condition for stabilization of the solution of the Cauchy problem for parabolic equation. (English summary) **2000m:35087**
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Kamin, Shoshana (*with* Kersner, Robert; Tesei, Alberto) On the Cauchy problem for a class of parabolic equations with variable density. (English and Italian summaries) **2000j:35125**
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Knosowski, Yvonne (*with* von Lieres, Eric; Schneider, Adrian) Regularization of a non-characteristic Cauchy problem for a parabolic equation in multiple dimensions. (English summary) **2000b:35104**
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Mikhaĭlov, A. P. *see* **Galaktionov, V. A. et al., (2000g:00037)**
Saccomandi, Giuseppe *see* **Day, William Alan, 2000j:35124**
Samarskiĭ, Aleksandr Andreevich *see* **Galaktionov, V. A. et al., (2000g:00037)**
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Xu, Xiaowei Cauchy problems related to differential operators with coefficients of generalized Hermite operators. **2000d:35092**

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35K20 Boundary value problems for second-order, parabolic equations

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Garroni, Maria Giovanna (*with* Solonnikov, Vsevolod A.; Vivaldi, Maria Agostina) Green function for the heat equation with oblique boundary conditions in an angle. **2000a:35091**
Godoy, T. (*with* Guerin, A.; Paczka, S.) On positive solutions of some periodic parabolic eigenvalue problem with a weight function. (English summary) **2000h:35061**
Grossinho, Maria do Rosário (*with* Omari, Pierpaolo) Existence of stable periodic solutions of a semilinear parabolic problem under Hammerstein-type conditions. (English summary) **2000k:35121**
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Kerefov, A. A. On problems with a continual derivative in the boundary conditions for a parabolic equation. (Russian. English and Ukrainian summaries) **2000h:35062**
Kravvaritis, Dimitrios (*with* Papageorgiou, Nikolaos S.) Extremal periodic solutions for nonlinear parabolic equations with discontinuities. (English summary) **2000e:35079**
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Bazalīĭ, B. V. On estimates for the solution of a model conjugation problem in the theory of problems with a free boundary. (Russian. Russian summary) **2000a:35259**
Bellettini, Giovanni (*with* Fusco, Giorgio) Some aspects of the dynamic of $V = H - \overline{H}$. (English summary) **2000m:53097**
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Solonnikov, Vsevolod A. Free boundary problems for second order parabolic equations. **2000f:35154**
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Watanabe, Hisako Layer heat potentials for a bounded cylinder with fractal lateral boundary. (English summary) **2000h:31005**
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35K25 General theory of higher-order, parabolic equations

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Galitsyn, A. S. Estimates for n-dimensional poly-calorical potentials with bounded density. (Ukrainian. English summary) **2000c:35088**
Han, Qing[1] On the Schauder estimates of solutions to parabolic equations. (English summary) **2000a:35094**
Hărăguş-Courcelle, Mariana The orbital stability of fronts for high order parabolic partial differential equations. (English summary) **2000e:35081**
Labbas, Rabah (*with* Sadallah, Boubaker-Khaled) Smoothness of the solution of a fourth order parabolic equation in a polygonal domain. (English summary) **2000d:35097**
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35K30 Initial value problems for higher-order, parabolic equations

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35K40 General theory of parabolic systems of PDE

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35K55 Nonlinear PDE of parabolic type

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35Lxx Partial differential equations of hyperbolic type [see also 58J45]

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35L10 General theory of second-order, hyperbolic equations

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35L15 Initial value problems for second-order, hyperbolic equations

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35L20 Boundary value problems for second-order, hyperbolic equations

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35L25 General theory of higher-order, hyperbolic equations

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35L45 Initial value problems for hyperbolic systems of first-order PDE

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35L50 Boundary value problems for hyperbolic systems of first-order PDE

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35L55 Hyperbolic systems of higher-order PDE

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35L60 Nonlinear first-order PDE of hyperbolic type

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35L82 Pseudohyperbolic equations

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35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

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35L90 Abstract hyperbolic evolution equations

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35L99 None of the above, but in this section

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Joly, Jean-Luc (*with* Métivier, Guy; Rauch, Jeffrey) Estimations L^p d'intégrales oscillantes. [L^p-estimates of oscillatory integrals] **2000j:35295**
Kabanikhin, S. I. (*with* Bakanov, G. B.) A discrete analogue of the Gel'fand-Levitan method in a two-dimensional inverse problem for a hyperbolic equation. (Russian. Russian summary) **2000i:65141**
Kananthai, Amnuay On the Fourier transform of the diamond kernel of Marcel Riesz. (English summary) **2000a:46061**
Kipriyanov, I. A. Fundamental solution of B-hyperbolic operators. (Russian) (*see* **2000h:47001**)
Kiselev, Aleksei P. (*with* Perel', M. V.) Asymptotic theory of local degeneration of Love and Rayleigh modes. (English summary) (*see* **2000g:00074**)
Kolīn'ko, M. O. (*with* Lavrenyuk, S. P.) The Fourier problem for an evolution system with the second time derivative. (Ukrainian. English and Russian summaries) **2000c:35090**
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Kozachenko, Yu. V. (*with* Koval'chuk, Yu. A.) Boundary value problems with random initial conditions, and functional series from $\mathrm{sub}_\varphi(\Omega)$. I. (Russian. English and Ukrainian summaries) **2000f:60029**
Kreiss, Heinz-Otto (*with* Lorenz, Jens) Stability for time-dependent differential equations. (English summary) **2000f:35012**
Kunik, Matthias *see* **Dreyer, Wolfgang, 2000f:80003**
Lappas, Tasso (*with* Leonard, Anthony; Dimotakis, Paul E.) Riemann invariant manifolds for the multidimensional Euler equations. (English summary) **2000f:76117**
Lavrenyuk, S. P. *see* **Kolīn'ko, M. O., 2000c:35090**
Lenhart, Suzanne M. *see* **Bradley, Mary Elizabeth et al., 2000h:49010**
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Lorenz, Jens *see* **Kreiss, Heinz-Otto, 2000f:35012**
Lorenzi, A. A multidimensional identification problem related to a hyperbolic integro-differential equation. (English summary) **2000g:35233**
Lu, Jin Bu *see* **Guo, Ai et al., 2000d:45015**
Lychev, S. A. *see* **Senitskiĭ, Yu. È., 2000i:65216**
Manganaro, Natale *see* **Fusco, Domenico, 2000f:92002**
Markowich, Peter A. *see* **Gérard, Patrick et al., 2000g:35015**
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Morton, K. W. Evolution-Galerkin methods: algorithms and analysis from a finite difference viewpoint. (English summary) **2000g:65078**
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Newman, W. I. (*with* Rand, Richard; Newman, A. L.) Dynamics of a nonlinear parametrically excited partial differential equation. (English summary) **2000a:35021**
Nimmo, J. J. C. (*with* Schief, Wolfgang K.; Rogers, Colin) Termination of Bergman series. Connection to the B_n Toda system. (English summary) **2000e:37116**
Orudzhev, È. G. Direct spectral problems for a fourth-order ordinary differential equation that depends polynomially on the spectral parameter. (Russian. English and Azerbaijani summaries) **2000d:34034**
Pączkowska-Prządka, Katarzyna Difference inequalities generated by impulsive hyperbolic differential-functional problems and applications. (English summary) **2000a:65104**
Pahk, Dae Hyeon (*with* Sohn, Byung Keun) Hyperbolic convolution equation in the Beurling's generalized distribution space. (English summary) **2000h:46057**
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— (*with* Stojanović, Mirjana) Generalized solutions to nonlinear Volterra integral equations with non-Lipschitz nonlinearity. **2000e:45013**
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Rand, Richard *see* **Newman, W. I. et al., 2000a:35021**
Rauch, Jeffrey *see* **Joly, Jean-Luc et al., 2000j:35295**
Rogers, Colin *see* **Nimmo, J. J. C. et al., 2000e:37116**
Sarıoğlu, Ö. *see* **Deser, S. et al., 2000h:70056**
Schief, Wolfgang K. *see* **Nimmo, J. J. C. et al., 2000e:37116**
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Sedenko, V. I. On the uniqueness theorem for generalized solutions of initial-boundary problems for the Marguerre-Vlasov vibrations of shallow shells with clamped boundary conditions. (English summary) **2000a:35237**
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Serrin, James *see* **Pucci, Patrizia, 2000a:34119**
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Souplet, Philippe Sharp stability estimates for quasi-autonomous evolution equations of hyperbolic type. (English and French summaries) **2000a:34121**
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Triggiani, Roberto High level interior and boundary regularity results of the Euler-Bernoulli equation with application to differential Riccati equations in optimal control. (English summary) **2000i:49032**
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Vârsan, Constantin ★ Applications of Lie algebras to hyperbolic and stochastic differential equations. (English summary) **2000k:35016**
Wang, Zhi Cheng[1] *see* **Wen, Xian Zhang et al., 2000i:35092**
Wen, Xian Zhang (*with* Wang, Zhi Cheng[1]; Yu, Jian She) Existence and asymptotic behavior of steady-state solutions to reaction-diffusion equations. (Chinese. Chinese summary) **2000i:35092**
— (*with* Zhou, Xiao Sha) An invariant manifold of exponential dichotomies and reaction-diffusion equations with time delays. (Chinese. English and Chinese summaries) **2000h:34127**
Ye, Chao *see* **Guo, Ai et al., 2000d:45015**
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Yu, Jian She *see* **Wen, Xian Zhang et al., 2000i:35092**
Zhou, Xiao Sha *see* **Wen, Xian Zhang, 2000h:34127**
Zolésio, Jean-Paul *see* **Delfour, Michel C., 2000f:49041**

35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Barros-Neto, J. (*with* Gel'fand, Izrail' Moiseevich) Fundamental solutions for the Tricomi operator. **2000e:35162**
Benabidallah, Rachid (*with* Ferreira, Jorge) On hyperbolic-parabolic equations with nonlinearity of Kirchhoff-Carrier type in domains with moving boundary. **2000c:35168**
Carrillo, José Entropy solutions for nonlinear degenerate problems. (English summary) **2000m:35132**
Ferreira, Jorge *see* **Benabidallah, Rachid, 2000c:35168**
Gagneux, Gérard *see* **Rouvre, Émilie, 2000g:35160**
Gel'fand, Izrail' Moiseevich *see* **Barros-Neto, J., 2000e:35162**
Glazatov, S. N. On the solvability of initial-boundary value problems for a nonlinear equation of variable type. (Russian. Russian summary) **2000a:35177**
Kadir, Shavkat Boundary value problems for a general linear parabolic-hyperbolic equation. (Russian. English and Uzbek summaries) **2000a:35178**
— A boundary value problem for a quasilinear equation of parabolic-hyperbolic type. (Russian) (*see* **2000b:35002**)
Kawashima, Shuichi (*with* Nikkuni, Yoshiko; Nishibata, Shinya) The initial value problem for hyperbolic-elliptic coupled systems and applications to radiation hydrodynamics. (English summary) **2000f:35106**
Kilbas, A. A. (*with* Repin, O. A.) A problem with a shift for a parabolic-hyperbolic equation. (Russian. Russian summary) **2000b:35180**
Kim, R. E. On a boundary value problem for a higher-order quasilinear equation of mixed type. (Russian. English, Russian and Kazakh summaries)
Lerner, M. E. (*with* Repin, O. A.) A boundary value problem with the M. Saigo operator for an equation of mixed type that is elliptic in a vertical half-strip. (Russian) **2000b:35115**
— On the formulation of boundary value problems for equations of mixed parabolic-hyperbolic type. (Russian. Russian summary)
— (*with* Repin, O. A.) On a problem with two nonlocal boundary conditions for an equation of mixed type. (Russian)
Lupo, Daniela (*with* Micheletti, Anna Maria; Payne, Kevin R.) Existence of eigenvalues for reflected Tricomi operators and applications to multiplicity of solutions for sublinear and asymptotically linear nonlocal Tricomi problems. (English summary) **2000d:35165**
— (*with* Payne, Kevin R.) A dual variational approach to a class of nonlocal semilinear Tricomi problems. (English summary) **2000k:35212**
Mamadaliev, N. K. The Tricomi problem for a strongly degenerate equation of parabolic-hyperbolic type. (Russian. Russian summary) **2000k:35213**
— *see also* **Salakhitdinov, M. S., (2000b:35002)**
Micheletti, Anna Maria *see* **Lupo, Daniela et al., 2000d:35165**
Milani, Albert J. On the construction of compatible data for hyperbolic-parabolic initial-boundary value problems. (English summary) **2000a:35179**
Mirsaburov, M. *see* **Salakhitdinov, M. S., 2000a:35180**
Nikkuni, Yoshiko *see* **Kawashima, Shuichi et al., 2000f:35106**
Nishibata, Shinya *see* **Kawashima, Shuichi et al., 2000f:35106**
Paskalev, G. P. Boundary value problem for a class of high order partial differential equations of mixed type. (English summary)
Payne, Kevin R. Boundary geometry and location of singularities for solutions to the Dirichlet problem for Tricomi type equations. (English summary) **2000c:35169**
— Propagation of singularities phenomena for equations of Tricomi type. (English summary) **2000e:35163**
— *see also* **Lupo, Daniela et al., 2000d:35165** *and* **2000k:35212**
Pieniążek, Alicja On a construction of hypoparabolic polynomials of two spatial variables and its application. (English summary) **2000h:35116**
Radojkov, Asen S. Boundary-value problem for a hyperbolic-parabolic equation with nonlocal boundary conditions. (Macedonian. English summary) (*see* **2000j:00020**)
Rassias, John Michael Existence of weak solutions for a parabolic elliptic-hyperbolic Tricomi problem. (English summary) **2000g:35159**
Repin, O. A. *see* **Kilbas, A. A., 2000b:35180** *and* **Lerner, M. E., 2000h:35115**
Rouvre, Émilie (*with* Gagneux, Gérard) Solution forte entropique de lois scalaires hyperboliques-paraboliques dégénérées. (English and French summaries) [Strong entropy solutions of degenerate parabolic-hyperbolic scalar conservation laws] **2000g:35160**

Salakhitdinov, M. S. (*with* Urinov, A. K.) ★ Краевые задачи для уравнений смешанного типа со спектральным параметром. (Russian. Russian summary) [Boundary value problems for equations of mixed type with a spectral parameter] **2000j:35203**
— (*with* Mamadaliev, N. K.) The Gellerstedt problem for an equation of parabolic-hyperbolic type of the second kind. (Russian) (*see* **2000b:35002**)
— (*with* Mirsaburov, M.) An analogue of the Bitsadze-Samarskiĭ problem. (Russian. Russian summary) **2000a:35180**
Sedletskiĭ, A. M. Bases that occur in the solution of equations of mixed type. (Russian. Russian summary) **2000k:35214**
Sun, Hesheng Modified Tricomi problem for a nonlinear system of second order equations of mixed type. (English summary) **2000e:35164**
Tain, Maoying *see* **Wen, Guo Chun, 2000b:35181**
Tian, Mao Ying *see* **Wen, Guo Chun, 2000g:35161** *and* **(2000j:00034)**
Uchikoshi, Keisuke Cauchy problems for mixed-type operators. (English summary) (*see* **2000k:00028**)
Urinov, A. K. *see* **Salakhitdinov, M. S., 2000j:35203**
Wen, Guo Chun Application of complex analysis to second order equations of mixed type. (English summary) **2000a:35181**
— (*with* Tain, Maoying) Oblique derivative problems for nonlinear equations of mixed type in general domains. (English summary) **2000b:35181**
— (*with* Tian, Mao Ying) The oblique derivative problem for general second order quasilinear equations of mixed type. (English summary) (*see* **2000j:00034**)
— Oblique derivative problems for second order nonlinear equations of mixed type in multiply connected domains. (English summary) **2000m:35133**
— (*with* Tian, Mao Ying) Quasilinear equations of mixed type. I. Oblique derivative problems. (English summary) **2000g:35161**
— A new approach to quasilinear equations of mixed type in general domains. (English summary) **2000j:35204**
Zaikina, T. B. A boundary value problem for a system of equations of mixed type with various orders of degeneration. (Russian. Russian summary) (*see* **2000k:00037**)

Items with secondary classifications in 35M10

Berdyshev, A. S. The basis property of a system of root functions of a boundary value problem with a shift for a parabolic-hyperbolic equation. (Russian) **2000j:35207**
Chekmarev, T. V. An example of a system of differential equations of indeterminate type. (Russian. Russian summary)
Chen, Ning[1] Blowing-up of solutions for a class of higher-order reaction-diffusion equations. (Chinese. English and Chinese summaries) **2000b:35120**
Chihara, Hiroyuki The initial value problem for the elliptic-hyperbolic Davey-Stewartson equation. (English summary) **2000a:35221**
Díaz Díaz, Jesús Ildefonso (*with* Lerena, Belén; Padial, Juan Francisco; Rakotoson, Jean-Michel) Nonlocal elliptic-parabolic equation arising in the transient regime of a magnetically confined plasma in a stellarator. (English and French summaries) **2000h:76177**
— (*with* Schiavi, Emanuele) On a degenerate parabolic/hyperbolic system in glaciology giving rise to a free boundary. **2000h:35164**
Glassey, Robert T. (*with* Yin, Hong-Ming) On Maxwell's equations with a temperature effect. II. (English summary) **2000g:35204**
Ivanov, Aleksandr Vasil'evich (*with* Rodrigues, José-Francisco) Generalized solutions of a problem with an obstacle for quasilinear elliptic-parabolic equations. (Russian. Russian summary) **2000i:35072**
Lerena, Belén *see* **Díaz Díaz, Jesús Ildefonso et al., 2000h:76177**
Muratbekov, M. B. (*with* Musilimov, B.) Nuclear forms of the resolvent of an operator of mixed type. (Kazakh. English, Russian and Kazakh summaries)
— On the discreteness and continuity of the spectrum of an operator of mixed type. (Russian. English, Russian and Kazakh summaries) **2000c:35172**
Musilimov, B. *see* **Muratbekov, M. B.**
Nagai, Toshitaka (*with* Senba, Takasi) Global existence and blow-up of radial solutions to a parabolic-elliptic system of chemotaxis. (English summary) **2000a:35241**
Othman, Saib Analytic solutions of a parabolic evolution system of partial differential equations coupled with a hyperbolic equation. (English summary) **2000f:34120**
Padial, Juan Francisco *see* **Díaz Díaz, Jesús Ildefonso et al., 2000h:76177**
Rakotoson, Jean-Michel *see* **Díaz Díaz, Jesús Ildefonso et al., 2000h:76177**
Rodrigues, José-Francisco *see* **Ivanov, Aleksandr Vasil'evich, 2000i:35072**
Schiavi, Emanuele *see* **Díaz Díaz, Jesús Ildefonso, 2000h:35164**
Senba, Takasi *see* **Nagai, Toshitaka, 2000a:35241**
Soldatov, A. P. The Riemann-Hilbert problem for the Lavrent'ev-Bitsadze system. (Russian. Russian summary) **2000j:30066**
Urinov, A. K. The extremum principle for some integro-differential operators and their applications to the study of boundary value problems. (Russian. English and Uzbek summaries) **2000a:45024**
Vanchikova, A. V. On a class of fourth-order equations that are not solved with respect to the highest derivative. (Russian) **2000g:35008**
Yin, Hong-Ming *see* **Glassey, Robert T., 2000g:35204**

35M20 PDE of composite type

Kozhanov, A. I. Regular solutions of some degenerate equations of Sobolev type. (Russian)

Items with secondary classifications in 35M20

Babak, P. P. The first boundary value problem for coupled diffusion systems with functional arguments. (English and Russian summaries) **2000k:35279**
Ekincioğlu, İ. *see* **Yildirim, Hüseyin, 2000f:35105**
Hasegawa, Yukiko On the C^∞-Goursat problem for some second order equations with variable coefficients. **2000a:35024**
Yildirim, Hüseyin (*with* Ekincioğlu, İ.) The solvability of initial-boundary value problem for a class of high order non-linear differential equations. (English summary) **2000f:35105**

35Nxx Overdetermined systems [see also 58Hxx, 58J10, 58J15]

35N05 Overdetermined systems with constant coefficients

Choulli, Mourad (*with* Henrot, Antoine) Use of the domain derivative to prove symmetry results in partial differential equations. (English summary) **2000a:35182**
Henrot, Antoine *see* **Choulli, Mourad, 2000a:35182**
Nagasawa, Takeyuki The Pompeiu and related problems and boundary behavior. (*see* **2000m:35006**)

Items with secondary classifications in 35N05

Dalmasso, Robert A new result on the Pompeiu problem. (English summary) **2000j:35060**
Palamodov, V. P. Holomorphic synthesis of monogenic functions of several quaternionic variables. (English summary) **2000i:32067**

35N10 Overdetermined systems with variable coefficients (general)

Dzhuraev, Abdukhamid Dzhuraevich Some boundary value problems for second order overdetermined elliptic systems in the unit ball of $\mathbf{C}^n$. (English summary) **2000b:35182**
Eastwood, Michael Some involutive structures in analysis and geometry. **2000k:35215**
Henrot, Antoine (*with* Philippin, G. A.; Prébet, H.) Overdetermined problems on ring shaped domains. (English summary) **2000i:35143**
Philippin, G. A. (*with* Safoui, A.) Some overdetermined parabolic problems. (English summary) **2000d:35166**
— *see also* **Henrot, Antoine et al., 2000i:35143**
Prébet, H. *see* **Henrot, Antoine et al., 2000i:35143**
Sabziev, È. N. Unboundedness of the solution of an overdetermined problem. (Russian. Russian summary) **2000i:35144**
Safoui, A. *see* **Philippin, G. A., 2000d:35166**
Zweibel, J. Overdetermined systems of linear partial differential operators with normal principal symbols. (English summary) **2000i:35145**

Items with secondary classifications in 35N10

Begehr, Heinrich G. W. (*with* Dzhuraev, Abdukhamid Dzhuraevich) Overdetermined systems of second order elliptic equations in several complex variables. **2000k:35076**
Dzhuraev, Abdukhamid Dzhuraevich ★ Singular partial differential equations. (English summary) **2000j:35111**
— *see also* **Begehr, Heinrich G. W., 2000k:35076**
Eastwood, Michael (*with* Graham, C. Robin) The involutive structure on the blow-up of $\mathbf{R}^n$ in $\mathbf{C}^n$. **2000i:32061**
Graham, C. Robin *see* **Eastwood, Michael, 2000i:32061**
Kakié, Kunio Existence of smooth solutions of overdetermined elliptic differential equations in two independent variables. **2000j:58034**
Ninomiya, Haruki Range of non-solvable complex vector fields and Cauchy problem for elliptic vector fields. (English summary) **2000k:35006**
Rosenhaus, V. On symmetry properties of overdetermined differential systems. (English summary) **2000c:58070**
Yamaguchi, Keizo G_2-geometry of overdetermined systems of second order. **2000g:58004**

35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [see also 32W05, 32W10, 58J10]

Adachi, Kenzō $\overline{\partial}$-problems and some applications. (*see* **2000c:00040**)

Items with secondary classifications in 35N15

Arai, Hitoshi Morrey spaces and applications to $\overline{\partial}_b$ and hypoelliptic pseudodifferential equations. (English summary) **2000c:35025**
Christ, Michael Singularity and regularity—local and global. (English summary) **2000b:35032**
Fontana, Luigi (*with* Krantz, Steven G.; Peloso, Marco M.) The $\overline{\partial}$-Neumann problem in the Sobolev topology. **2000i:32064**
Guan, Bo A correction to: "The Dirichlet problem for complex Monge-Ampère equations and regularity of the pluri-complex Green function" [Comm. Anal. Geom. **6** (1998), no. 4, 687–703; MR 2000d:32062]. **2000k:32035**
Hachaichi, Mohamed-Salah Formules de représentation intégrale et application à la résolution de l'équation de Cauchy-Riemann dans le disque unité généralisé de $M_n(\mathbf{C})$. (English, French and Arabic summaries) [Integral representation formulas and application to the solution of the Cauchy-Riemann equation in the generalized unit disk of $M_n(\mathbf{C})$] **2000d:32007**
Kohn, J. J. Quantitative estimates for global regularity. **2000f:32046**
Krantz, Steven G. (*with* Peloso, Marco M.) Sobolev spaces and projections of holomorphic functions and mappings. **2000e:32002**
— *see also* **Fontana, Luigi et al., 2000i:32064**
Kuranishi, Masatake PDEs associated to the CR embedding theorem. **2000j:32061**
Lee, Jinkee (*with* Shon, Kwang Ho) The $\overline{\partial}$-equation in $\mathbf{C}^n$ for holomorphic $(0,2)$-forms defined on infinite-dimensional spaces. (English summary) **2000a:32080**
— (*with* Shon, Kwang Ho) The $\overline{\partial}$ problem for $(0,2)$-forms in infinite-dimensional complex spaces. **2000f:32047**
Michel, Joachim (*with* Shaw, Mei-Chi) $\overline{\partial}$ and $\overline{\partial}_b$ problems on nonsmooth domains. **2000d:32059**
— (*with* Shaw, Mei-Chi) The $\overline{\partial}$ problem on domains with piecewise smooth boundaries with applications. **2000a:32083**
Peloso, Marco M. *see* **Krantz, Steven G., 2000e:32002** *and* **Fontana, Luigi et al., 2000i:32064**
Shaw, Mei-Chi *see* **Michel, Joachim, 2000a:32083** *and* **2000d:32059**
Shon, Kwang Ho *see* **Lee, Jinkee, 2000a:32080** *and* **2000f:32047**
Thilliez, Vincent Hilbert-valued forms and barriers on weakly pseudoconvex domains. (English summary) **2000a:32084**

35N99 None of the above, but in this section

Items with secondary classifications in 35N99

Chen, Yu Fu *see* **Zhang, Hong Qing[1], 2000e:35007**
Choulli, Mourad (*with* Yamamoto, Masahiro) Generic well-posedness of a linear inverse parabolic problem with diffusion parameters. (English summary) **2000g:35227**
Kamynin, V. L. *see* **Vasin, I. A., 2000c:35252**
Vasin, I. A. (*with* Kamynin, V. L.) On the asymptotic behavior of solutions of inverse problems for parabolic equations. (Russian. Russian summary) **2000c:35252**
Yamamoto, Masahiro *see* **Choulli, Mourad, 2000g:35227**
Zhang, Hong Qing[1] (*with* Chen, Yu Fu) A reduction method for overdetermined systems of equations. (Chinese. English and Chinese summaries) **2000e:35007**

35Pxx Spectral theory and eigenvalue problems for partial differential operators [see also 47Axx, 47Bxx, 47F05]

35P05 General spectral theory of PDE

Agranovich, M. S. Elements of the spectral theory on Lipschitz surface. (*see* **2000g:00075**)
— (*with* Mennicken, Reinhard) Spectral problems for the Helmholtz equation with a spectral parameter in the boundary conditions on a nonsmooth surface. (Russian. Russian summary) **2000g:35162**
Borisov, D. I. (*with* Gadyl'shin, Rustem R.) On the spectrum of the Laplacian with frequently changing type of boundary conditions. (Russian. Russian summary)
Bouhennache, Tark Spectral analysis of a perturbed multistratified isotropic elastic strip: new method. (English summary) **2000c:35170**
Boussejra, Abdelhamid (*with* Intissar, Ahmed) L^2-concrete spectral analysis of the invariant Laplacian $\Delta_{\alpha\beta}$ in the unit complex ball B^n. (English summary) **2000a:35183**
Brasche, Johannes F. On the absolutely continuous energy distribution of a quantum mechanical system in a bounded domain. (English summary) **2000j:35205**
Bucur, Dorin (*with* Buttazzo, Giuseppe; Figueiredo, Isabel) On the attainable eigenvalues of the Laplace operator. (English summary) **2000b:35183**
Buttazzo, Giuseppe *see* **Bucur, Dorin et al., 2000b:35183**
Cornean, H. D. On the essential spectrum of two-dimensional periodic magnetic Schrödinger operators. (English summary) **2000k:35216**
Danilov, L. I. On the spectrum of the two-dimensional periodic Dirac operator. (Russian. Russian summary) **2000h:35117**
Dermenjian, Yves (*with* Durand, Marc; Iftimie, Viorel) Analyse spectrale et complétude asymptotique pour une bande multi-stratifiée perturbée. (English and French summaries) [Spectral analysis and asymptotic amplitude for a perturbed multistratified layer] **2000e:35165**
Dubrovskiĭ, V. V. (*with* Puzankova, E. A.) An estimate for the difference of spectral functions, and regularized trace formulas for a power of the Laplace operator defined on a triangle or a square, in L_p, $1 \le p \le 2$. (Russian. Russian summary) **2000i:35146**
— (*with* Puzankova, E. A.) An estimate for the difference between functions of a power of the Laplace operator defined on a triangle in L_p, $1 \le p \le 2$. (Russian)
— *see also* **Sadovnichiĭ, Viktor Antonovich et al.**
Durand, Marc *see* **Dermenjian, Yves et al., 2000e:35165**
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"Weak solutions to quasilinear wave equations of Klein-Gordon or sine-Gordon type and relaxation to reaction-diffusion equations" Errata: "Weak solutions to quasilinear wave equations of Klein-Gordon or sine-Gordon type and relaxation to reaction-diffusion equations" [NoDEA Nonlinear Differential Equations Appl. 4 (1997), no. 4, 439–457; MR 99f:35092] by B. Rubino. (English summary) **2000k:35143**

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35R05 PDE with discontinuous coefficients or data

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35R12 Impulsive partial differential equations

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35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

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35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [see also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H20, 47Jxx]

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35R25 Improperly posed problems for PDE

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35R70 PDE with multivalued right-hand sides

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35Sxx Pseudodifferential operators and other generalizations of partial differential operators [see also 47G30, 58J40]

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35S05 General theory of PsDO

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Leopold, Hans-Gerd Embedding of function spaces of variable order of differentiation in function spaces of variable order of integration. (English summary) **2000g:46045**
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35S30 Fourier integral operators

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37–XX Dynamical systems and ergodic theory [see also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX]

37–01 Instructional exposition (textbooks, tutorial papers, etc.)

Baba, Yoshikazu *see* **Nagashima, Hiroyuki, 2000e:37001**
Cooper, Kevin D. (*with* LoFaro, Thomas) Differential equations on the Internet. (English summary) (*see* **2000g:34002**)
Dang, Mai *see* **Martelli, Mario Umberto et al., 2000g:37001**
Glass, Leon *see* **Kaplan, Daniel, 2000j:37001**
Kamerich, Ernie Iteration and fractals for gifted high school pupils.
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Kaplan, Daniel (*with* Glass, Leon) ★ Understanding nonlinear dynamics. **2000j:37001**
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Martelli, Mario Umberto (*with* Dang, Mai; Seph, Tanya) Defining chaos. **2000g:37001**
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Balibrea Gallego, Francisco Chaos and strange attractors: two nonlinear problems in mathematics. (Spanish) **2000f:37039**
Bellomo, Nicola (*with* Preziosi, Luigi; Romano, Antonio) ★ Mechanics and dynamical systems with Mathematica®. (English summary) **2000i:70001**
Chicone, Carmen ★ Ordinary differential equations with applications. (English summary) **2000h:34001**
Jordan, D. W. (*with* Smith, Peter[2]) ★ Nonlinear ordinary differential equations. (English summary) **2000j:34001**
Mooney, Douglas D. (*with* Swift, Randall J.) ★ A course in mathematical modeling. (English summary) **2000f:00012**
Preziosi, Luigi *see* **Bellomo, Nicola et al., 2000i:70001**
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Smith, Peter[2] *see* **Jordan, D. W., 2000j:34001**
Swift, Randall J. *see* **Mooney, Douglas D., 2000f:00012**

37–02 Research exposition (monographs, survey articles)

Chua, Leon O. *see* **Shil′nikov, L. P. et al., 2000h:37001**
Easton, Robert W. ★ Geometric methods for discrete dynamical systems. **2000e:37002**
(Gonchenko, S. V.) *see* **Shil′nikov, L. P. et al., 2000h:37001**
Haller, György ★ Chaos near resonance. (English summary) **2000m:37001**
Medio, Alfredo Nonlinear dynamics and chaos. II. Ergodic approach. (English summary) **2000f:37002**
(Shashkov, Mikhail V.) *see* **Shil′nikov, L. P. et al., 2000h:37001**
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Shil′nikov, L. P. (*with* Shil′nikov, A. L.; Turaev, D. V.; Chua, Leon O.) ★ Methods of qualitative theory in nonlinear dynamics. Part I. **2000h:37001**
(Sten′kin, Oleg) *see* **Shil′nikov, L. P. et al., 2000h:37001**
Turaev, D. V. *see* **Shil′nikov, L. P. et al., 2000h:37001**
Weiss, Benjamin ★ Single orbit dynamics. (English summary) **2000k:37001**

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Arnold, Ludwig ★ Random dynamical systems. (English summary) **2000m:37087**
Zhuzhoma, E. V. *see* **Aranson, S. Kh., 2000a:37026**

37–03 Historical (must also be assigned at least one classification number from Section 01)

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Iglesias, Patrick Les origines du calcul symplectique chez Lagrange. [The origins of symplectic calculus in Lagrange's work] **2000c:01024**
Moser, Jürgen K. Recollections. (*see* **2000j:00030**)

37–04 Explicit machine computation and programs (not the theory of computation or programming)

Jodl, H.-J. *see* **Korsch, H. J., 2000g:37002**
Korsch, H. J. (*with* Jodl, H.-J.) ★ Chaos. (English summary) **2000g:37002**

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Benbachir, Saâd Symbolic research of the periodic solutions of the nonintegrable Hamiltonian system of Ollongren. (English summary) **2000j:37080**
Bi, Qin Sheng (*with* Yu, Pei) Computation of normal forms of differential equations associated with non-semisimple zero eigenvalues. (English summary) **2000j:34056**
— (*with* Yu, Pei) Symbolic software development for computing the normal form of double Hopf bifurcation. (English summary) **2000b:34057**
Campos Romero, Diógenes *see* **Triana, Santiago Andrés, 2000c:37041**
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Cooper, Kevin D. (*with* LoFaro, Thomas) Differential equations on the Internet. (English summary) (*see* **2000g:34002**)
(Ganzha, V. G.) *see* **Computer algebra in scientific computing—CASC'99, 2000g:00047**
Gerdt, Vladimir P. (*with* Gogilidze, Soso A.) Constrained Hamiltonian systems and Gröbner bases. (English summary) **2000i:37099**
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Govaerts, W. (*with* Kuznetsov, Yurii Aleksandrovich; Sijnave, B.) Bifurcations of maps in the software package CONTENT. (English summary) **2000h:37137**
Huseyin, Koncay *see* **Zhang, Wei Yi, 2000h:34069**
Jorba, Àngel A methodology for the numerical computation of normal forms, centre manifolds and first integrals of Hamiltonian systems. (English summary) **2000e:37142**
Korn, Granino A. ★ Numerical insights into dynamic systems. (English summary) **2000m:37190**
Kuznetsov, Yurii Aleksandrovich ★ Elements of applied bifurcation theory. (English summary) **2000f:37060**
— *see also* **Govaerts, W. et al., 2000h:37137**
LoFaro, Thomas *see* **Cooper, Kevin D., (2000g:34002)**
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Mikram, Jilali (*with* Zinoun, Fouad) Computation of normal forms of Hamiltonian systems in the presence of Poisson commuting integrals. (English summary) **2000j:37079**
Pismen, Leonid M. (*with* Rubinstein, Boris Y.) Computer tools for bifurcation analysis: general approach with application to dynamical and distributed systems. (English summary) **2000e:37140**
Preziosi, Luigi *see* **Bellomo, Nicola et al., 2000i:70001**
Romano, Antonio *see* **Bellomo, Nicola et al., 2000i:70001**
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Rubinstein, Boris Y. *see* **Pismen, Leonid M., 2000e:37140**
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37–06 Proceedings, conferences, collections, etc.

(Alsedà, Lluís) *see* **Discrete dynamical systems, 2000g:37004**
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(Casati, Giulio) *see* **Classical chaos and its quantum manifestations, 2000h:37002**
(Chen, Zhangxin) *see* **Bifurcation theory & its numerical analysis, 2000f:37003**
(Chirikov, Boris) *see* **Classical chaos and its quantum manifestations, 2000h:37002**
(Chow, Shui-Nee) *see* **Bifurcation theory & its numerical analysis, 2000f:37003**
(Forti, Gian-Luigi) *see* **Iteration theory (ECIT '96), 2000m:37002**
(Gardini, Laura) *see* **Iteration theory (ECIT '96), 2000m:37002**
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(Bobenko, A. I.) *see* **Discrete integrable geometry and physics, 2000g:00055**
(Bouquet, S. E.) *see* **Dynamical systems, plasmas and gravitation, 2000g:00056**
(Busse, Friedrich H.) *see* **Evolution of spontaneous structures in dissipative continuous systems, 2000g:00030**
(Chen, Guanrong) *see* **Controlling chaos and bifurcations in engineering systems, 2000m:93010**
(Chen, Wenxiong) *see* **Dynamical systems and differential equations, 2000e:00020** *and* **2000e:00021**
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(Izmailova, Z. I.) *see* **Dynamical systems, 2000e:00031**
(Kolář, Ivan) *see* **Differential geometry and applications, 2000e:53004**
(Kowalski, Oldřich) *see* **Differential geometry and applications, 2000e:53004**
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(Lisle, Ian G.) *see* **Geometric approaches to differential equations, 2000m:00019**
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Aussois ★ Rencontres de Théorie Spectrale et Géométrie. (French) [Conference on Spectral Theory and Geometry] **2000g:00051**
Brno ★ Differential geometry and applications. **2000e:53004**
Brussels ★ Integrability and chaos in discrete systems. **2000g:00060**
Canberra ★ Geometric approaches to differential equations. **2000m:00019**
Cellular automata and complex systems ★ Cellular automata and complex systems. **2000i:37008**
Conference:
  Condensed Matter Physics and Discrete Geometry ★ Discrete integrable geometry and physics. **2000g:00055**
  Differential Equations and Applications ★ Differential equations and applications. (Russian) **2000m:34003**
  Differential Geometry and Applications ★ Differential geometry and applications. **2000e:53004**
  Dimension and Dynamics ★ International Conference on Dimension and Dynamics. **2000g:00048**
  Dynamical Systems and Differential Equations ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
  —★ Dynamical systems and differential equations. Vol. II. **2000e:00021**
  Dynamical Systems, Plasmas and Gravitation ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
  Dynamics Days ★ {UK Dynamics Days Conference}. **2000g:00049**
  Iteration Theory ★ {European Conference on Iteration Theory}. **2000j:00031**
  Nonlinearity, Bifurcation and Chaos: the Doors to the Future ★ Nonlinearity, bifurcation and chaos: the doors to the future. Part I. **2000c:00034**
  Spectral Theory and Geometry ★ Rencontres de Théorie Spectrale et Géométrie. (French) [Conference on Spectral Theory and Geometry] **2000g:00051**
Controlling chaos and bifurcations in engineering systems ★ Controlling chaos and bifurcations in engineering systems. **2000m:93010**
Differential equations and applications ★ Differential equations and applications. (Russian) **2000m:34003**
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Dynamical systems ★ Dynamical systems. 7. **2000e:00031**
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Dynamical systems and differential geometry ★ Rikigakkei to bibun kikagaku. (Japanese) [Dynamical systems and differential geometry] **2000d:00010**
Dynamical systems, plasmas and gravitation ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
Dynamics of algorithms ★ Dynamics of algorithms. **2000h:65011**
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Evolution of spontaneous structures in dissipative continuous systems ★ Evolution of spontaneous structures in dissipative continuous systems. **2000g:00030**
Geometric approaches to differential equations ★ Geometric approaches to differential equations. **2000m:00019**
Integrability and chaos in discrete systems ★ Integrability and chaos in discrete systems. **2000g:00060**
Lecture Notes in Physics ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
Lecture Notes in Physics. New Series m: Monographs ★ Evolution of spontaneous structures in dissipative continuous systems. **2000g:00030**
Meeting:
  Integrability and Chaos in Discrete Systems ★ Integrability and chaos in discrete systems. **2000g:00060**
Memorial Issue:
  Targonski, Györgу ★ {European Conference on Iteration Theory}. **2000j:00031**
Minneapolis, MN ★ Dynamics of algorithms. **2000h:65011**
Miskolc ★ International Conference on Dimension and Dynamics. **2000g:00048**
Muszyna-Złockie ★ {European Conference on Iteration Theory}. **2000j:00031**
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Orléans la Source ★ Dynamical systems, plasmas and gravitation. **2000g:00056**
Santiago ★ Cellular automata and complex systems. **2000i:37008**
School:
  Complex Systems ★ Cellular automata and complex systems. **2000i:37008**
Seminar:
  Mathematical Physics ★ Moscow Seminar in Mathematical Physics. **2000g:00073**
Some problems in contemporary mathematics ★ Некоторые вопросы современной математики. (Russian) [Some problems in contemporary mathematics] **2000k:00024**

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Springfield, MO ★ Dynamical systems and differential equations. Vol. I. **2000e:00020**
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St. Petersburg ★ Differential equations and applications. (Russian) **2000m:34003**
Symposium:
Dynamical Systems and Differential Geometry ★ Rikigakkei to bibun kikagaku. (Japanese) [Dynamical systems and differential geometry] **2000d:00010**
Vienna ★ Discrete integrable geometry and physics. **2000g:00055**
Workshop:
Dynamics of Algorithms ★ Dynamics of algorithms. **2000h:65011**

37Axx Ergodic theory [see also 28Dxx]

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Medio, Alfredo Nonlinear dynamics and chaos. II. Ergodic approach. (English summary) **2000f:37002**
Nadkarni, M. G. ★ Basic ergodic theory. (English summary) **2000g:28034**

37A05 Measure-preserving transformations

Broomhead, D. S. (*with* Hadjiloucas, Demetris; Nicol, Matthew) Random and deterministic perturbation of a class of skew-product systems. (English summary) **2000d:37001**
Chakvetadze, G. (*with* Stepin, A. M.) On dynamical model of drilling wells. (English summary) **2000j:37002**
— Stochastic stability in a model of drilling. (English summary) **2000j:37003**
Ding, Jiu (*with* Zhou, Ai Hui) Invariant measures and their computation. (Chinese. English and Chinese summaries) **2000c:37002**
Dzhalilov, A. A. Singularity exponents of invariant measures of homeomorphisms of a circle with breaks. (Russian. English and Uzbek summaries) **2000g:37005**
Gordin, Mikhail Double extensions of dynamical systems and the construction of mixing filtrations. (Russian. English and Russian summaries) **2000e:37003**
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Le Borgne, Stéphane Limit theorems for non-hyperbolic automorphisms of the torus. (English summary) **2000a:37001**
Lindenstrauss, Elon Measurable distal and topological distal systems. (English summary) **2000f:37005**
Mercik, Szymon (*with* Weron, Karina) Application of the internal time operators for the Renyi map. (English summary) **2000k:37002**
Nicol, Matthew *see* **Broomhead, D. S. et al., 2000d:37001**
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Weron, Karina *see* **Mercik, Szymon, 2000k:37002**
Zhou, Ai Hui *see* **Ding, Jiu, 2000c:37002**

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Ageev, O. N. On the spectral multiplicity function for dynamical systems. (Russian) **2000m:28014**
Antoniou, Ioannis E. (*with* Sadovnichiĭ, Viktor Antonovich; Shkarin, Stanislav) New extended spectral decompositions of the Renyi map. (English summary) **2000e:37004**
Corbu, Sergiu (*with* Postolache, Mihai) Dynamical systems on vector bundles. (English summary) **2000m:37089**
El Abdalaoui, El Houcein La singularité mutuelle presque sûre du spectre des transformations d'Ornstein. (English summary) [Almost sure mutual singularity of the spectrum of Ornstein transformations] **2000i:28018**
Hoffman, Christopher The behavior of Bernoulli shifts relative to their factors. (English summary) **2000i:28019**
Jones, Roger L. (*with* Rosenblatt, Joseph M.; Wierdl, Máté) Counting in ergodic theory. (English summary) **2000i:28021**
Kloeden, Peter E. (*with* Mustard, J.; Pokrovskiĭ, A. V.) Statistical properties of some spatially discretized dynamical systems. (English summary) **2000e:37039**
Kornfeld, Isaac Coboundaries for commuting transformations. (English summary) **2000k:28030**
Lemańczyk, Mariusz Canonical factors on a Lebesgue space. (English and Russian summaries)
Mezić, Igor (*with* Wiggins, Stephen) A method for visualization of invariant sets of dynamical systems based on the ergodic partition. (English summary) **2000c:37128**
Mustard, J. *see* **Kloeden, Peter E. et al., 2000e:37039**
Pilyugin, S. Yu. *see* **Pliss, Viktor Aleksandrovich, 2000m:37021**
Pliss, Viktor Aleksandrovich (*with* Pilyugin, S. Yu.) Existence of preserved structures for diffeomorphisms with an ergodic invariant measure. (Russian. Russian summary) **2000m:37021**
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Schmidt, Klaus[1] Tail-fields of products of random variables and ergodic equivalence relations. (English summary) **2000k:37007**
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37A10 One-parameter continuous families of measure-preserving transformations

Items with secondary classifications in 37A10

Schreiber, Sebastian J. On growth rates of subadditive functions for semiflows. (English summary) **2000a:37004**

37A15 General groups of measure-preserving transformations [See mainly 22Fxx]

Beklaryan, L. A. On the classification of the orientation-preserving homeomorphism groups of **R**. III. ω-projectively invariant measures. (Russian. Russian summary) **2000j:37004**
Furman, Alex (*with* Shalom, Yehuda) Sharp ergodic theorems for group actions and strong ergodicity. (English summary) **2000i:37001**
Grigorchuk, R. I. Ergodic theorems for the actions of a free group and a free semigroup. (Russian) **2000h:37004**
Lind, Douglas (*with* Schmidt, Klaus[1]) Homoclinic points of algebraic $\mathbf{Z}^d$-actions. (English summary) **2000d:37002**
Madden, K. M. (*with* Markley, N. G.) The ergodic theorem for topological cocycles. **2000c:37003**
Markley, N. G. *see* **Madden, K. M., 2000c:37003**
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Adams, Terrence (*with* Silva, Cesar E.) $\mathbf{Z}^d$ staircase actions. (English summary) **2000k:28032**
Benardete, D. (*with* Dani, S. G.) Topological equivalence and rigidity of flows on certain solvmanifolds. (English summary) **2000j:37032**
Bercovici, Hari (*with* Nițică, Viorel) A Banach algebra version of the Livsic theorem. (English summary) **2000c:37031**
Dani, S. G. *see* **Benardete, D., 2000j:37032**
Feldman, Jacob[1] Standard orbit factors and entropy-free Vershik equivalence. (English summary) **2000g:37006**
Goodson, Geoffrey R. Skew products in the centralizer of compact abelian group extensions. (English summary) **2000k:28029**
Heicklen, Deborah Bernoullis are standard when entropy is not an obstruction. (English summary) **2000c:28024**
Kharazishvili, A. B. ★ Transformation groups and invariant measures. **2000g:28028**
Krzyżewski, K. On some Sidon sequences. (English summary) **2000m:28019**
Nicol, Matthew (*with* Pollicott, Mark) Measurable cocycle rigidity for some non-compact groups. (English summary) **2000k:37004**
Nițică, Viorel *see* **Bercovici, Hari, 2000c:37031**
Peigné, Marc Dénombrement des géodésiques fermées sur certaines variétés avec pointes. (French summary) [Counting closed geodesics on certain manifolds with cusps] (*see* **2000f:00014**)
Pollicott, Mark *see* **Nicol, Matthew, 2000k:37004**
Prikhod'ko, A. A. Joinings of the action of the group $\mathrm{GL}(n, \mathbf{Z})$ on an n-dimensional torus. (Russian)
Rebelo, Julio C. Ergodicity and rigidity for certain subgroups of $\mathrm{Diff}^{\omega}(S^1)$. (English and French summaries) **2000f:37031**
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Starkov, A. N. Minimality and strict ergodicity of homogeneous actions. (Russian. Russian summary) **2000i:22010**

37A17 Homogeneous flows [see also 22Fxx]

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Albuquerque, Paul Support des mesures de Patterson-Sullivan en rang supérieur. [Support of higher-rank Patterson-Sullivan measures] (*see* **2000f:00014**)

37A20 Orbit equivalence, cocycles, ergodic equivalence relations

Arnold, Ludwig (*with* Nguyễn Đình Công; Oseledets, V. I.) Jordan normal form for linear cocycles. (English summary) **2000j:37005**
Danilenko, A. I. Quasinormal subrelations of ergodic equivalence relations. (English summary) **2000k:37003**
Feldman, Jacob[1] Standard orbit factors and entropy-free Vershik equivalence. (English summary) **2000g:37006**
Nguyễn Đình Công *see* **Arnold, Ludwig et al., 2000j:37005**
Nicol, Matthew (*with* Pollicott, Mark) Measurable cocycle rigidity for some non-compact groups. (English summary) **2000k:37004**
Oseledets, V. I. *see* **Arnold, Ludwig et al., 2000j:37005**
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Starkov, A. N. The first cohomology group, mixing, and minimal sets of the commutative group of algebraic actions on a torus. **2000m:37005**

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Bercovici, Hari (*with* Nițică, Viorel) A Banach algebra version of the Livsic theorem. (English summary) **2000c:37031**
Heicklen, Deborah Bernoullis are standard when entropy is not an obstruction. (English summary) **2000c:28024**
Hjorth, Greg ★ Classification and orbit equivalence relations. (English summary) **2000k:03097**
Krikorian, Raphaël Réductibilité presque partout des flots fibrés quasi-périodiques à valeurs dans des groupes compacts. (English and French summaries) [Almost everywhere reducibility of quasiperiodic fibered flows with values in compact groups] **2000h:37033**
Madden, K. M. (*with* Markley, N. G.) The ergodic theorem for topological cocycles. **2000c:37003**
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Nițică, Viorel (*with* Török, Andrei) Regularity of the transfer map for cohomologous cocycles. (English summary) **2000m:37030**
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Parry, William The Livšic periodic point theorem for non-abelian cocycles. (English summary) **2000d:37019**
Schmidt, Klaus[1] Remarks on Livšic' theory for nonabelian cocycles. (English summary) **2000f:37036**
— Tail-fields of products of random variables and ergodic equivalence relations. (English summary) **2000k:37007**
Sugisaki, Fumiaki The relationship between entropy and strong orbit equivalence for the minimal homeomorphisms. II. (English summary) **2000m:37014**
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37A25 Ergodicity, mixing, rates of mixing

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Shalom, Yehuda Random ergodic theorems, invariant means and unitary representation. **2000i:22006**
— *see also* **Furman, Alex, 2000i:37001**
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— (*with* Szász, Domokos) Hard ball systems are completely hyperbolic. (English summary) **2000a:37016**
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37A30 Ergodic theorems, spectral theory, Markov operators {For operator ergodic theory, see mainly 47A35.}

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Chen, Yong-Zhuo Inhomogeneous iterates and nonlinear weak ergodic theorems. (*see* **2000k:00041**)
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Ziegler, Klaus Some uniform ergodic inequalities in the nonmeasurable case. (English summary) **2000c:47025**

37A35 Entropy and other invariants, isomorphism, classification

Balibrea Gallego, Francisco (*with* Jiménez López, Víctor; Cánovas Peña, J. S.) Some results on entropy and sequence entropy. (English summary) **2000j:37008**
Cánovas Peña, J. S. *see* **Balibrea Gallego, Francisco et al.**, **2000j:37008**
Ding, Yi Ming *see* **Fan, Wen Tao**, **2000i:37002**
Fan, Wen Tao (*with* Ding, Yi Ming) Mean entropy. (Chinese. English and Chinese summaries) **2000i:37002**
Gorbul'skiĭ, A. On an entropy property of a decreasing sequence of measurable partitions. (Russian. English and Russian summaries) **2000k:37005**
Iwanik, A. (*with* Serafin, Jacek) Code length between Markov processes. (English summary) **2000k:37006**
Jiménez López, Víctor *see* **Balibrea Gallego, Francisco et al.**, **2000j:37008**
Park, Kyewon Koh On directional entropy functions. (English summary) **2000m:37007**
Serafin, Jacek *see* **Iwanik, A.**, **2000k:37006**
Sidorov, Nikita *see* **Vershik, Anatoliĭ Moiseevich**, **2000d:37006**
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Bellon, M. P. (*with* Viallet, Claude) Algebraic entropy. (English summary) **2000f:37040**
Castillon, Philippe Métriques à entropie topologique positive sur S^2. [Metrics of positive topological entropy on S^2] (*see* **2000f:58069**)
Dai, Xiongping (*with* Zhou, Zuo Ling; Geng, Xiang Yi) Some relations between Hausdorff-dimensions and entropies. (English summary) **2000a:28006**
Feldman, Jacob[1] Standard orbit factors and entropy-free Vershik equivalence. (English summary) **2000g:37006**
Froyland, Gary Using Ulam's method to calculate entropy and other dynamical invariants. (English summary) **2000g:37031**
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Haydn, Nicolai The distribution of the first return time for rational maps. (English summary) **2000c:37059**
Jiang, Miaohua The entropy formula for SRB-measures of lattice dynamical systems. (English summary) **2000e:37027**
Karanikas, C. The Hausdorff dimension of very weak self-similar fractals described by the Haar wavelet system. (English summary) (*see* **2000g:00060**)
Khare, Mona Metric entropy and sufficient families. (English summary)
— Sufficient families and entropy of inverse limit. (English summary) **2000i:37004**
— *see also* **Srivastava, Pramila**, **2000h:28019**
Lebedev, Andrei (*with* Maslak, O. V.) The spectral radius of a weighted shift operator, variational principles, entropy and topological pressure. **2000h:47046**
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Schmeling, Jörg (*with* Troubetzkoy, Serge) Dimension and invertibility of hyperbolic endomorphisms with singularities. (English summary) **2000b:37032**
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Srivastava, Pramila (*with* Khare, Mona) Conditional entropy and Rokhlin metric. (English summary) **2000h:28019**
Takens, Floris (*with* Verbitskiĭ, E. A.) Multifractal analysis of local entropies for Gibbs measures. (English summary) (*see* **2000g:00048**)
— (*with* Verbitskiĭ, E. A.) Multifractal analysis of local entropies for expansive homeomorphisms with specification. (English summary) **2000e:37028**
Troubetzkoy, Serge *see* **Schmeling, Jörg**, **2000b:37032**
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Viallet, Claude *see* **Bellon, M. P.**, **2000f:37040**
Zhou, Zuo Ling *see* **Dai, Xiongping et al.**, **2000a:28006**

37A40 Nonsingular (and infinite-measure preserving) transformations

Hall, Peter Gavin (*with* Wolff, Rodney C. L.) Properties of distributions and correlation integrals for generalised versions of the logistic map. (English summary) **2000e:37006**
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Bartoszek, Wojciech On asymptotic cyclicity of doubly stochastic operators. (English summary) **2000m:47009**
St. Pierre, Matthias Topological and measurable dynamics of Lorenz maps. **2000h:37053**
Yuri, Michiko Statistical properties for nonhyperbolic maps with finite range structure. (English summary) **2000j:37009**

37A45 Relations with number theory and harmonic analysis [see also 11Kxx]

Hill, Richard Michael (*with* Velani, Sanju L.) The shrinking target problem for matrix transformations of tori. (English summary) **2000i:37003**
Kurths, Jürgen *see* **Zaks, Mikhail A. et al.**, **2000c:37007**
Meester, Ronald A simple proof of the exponential convergence of the modified Jacobi-Perron algorithm. (English summary) **2000f:37006**
Pikovskiĭ, A. S. *see* **Zaks, Mikhail A. et al.**, **2000c:37007**
Velani, Sanju L. *see* **Hill, Richard Michael**, **2000i:37003**
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de A. Moreira, Carlos Gustavo T. ★ Conjuntos de Cantor, dinâmica e aritmética. (Portuguese) [Cantor sets, dynamics and arithmetic] **2000k:37023**
Einsiedler, Manfred A generalisation of Mahler measure and its application in algebraic dynamical systems. (English summary) **2000c:11171**
Everest, Graham (*with* Ward, Thomas B.) A dynamical interpretation of the global canonical height on an elliptic curve. (English summary) **2000f:11079**
— (*with* Ward, Thomas B.) ★ Heights of polynomials and entropy in algebraic dynamics. (English summary) **2000e:11087**
Hellekalek, Peter On the assessment of random and quasi-random point sets. **2000c:11127**
Krzyżewski, K. On some Sidon sequences. (English summary) **2000m:28019**
Pollicott, Mark (*with* Weiss, Howard N.) Multifractal analysis of Lyapunov exponent for continued fraction and Manneville-Pomeau transformations and applications to Diophantine approximation. (English summary) **2000j:37027**
Ward, Thomas B. *see* **Everest, Graham**, **2000e:11087** *and* **2000f:11079**

Weiss, Howard N. *see* **Pollicott, Mark**, **2000j:37027**
Yuri, Michiko Statistical properties for nonhyperbolic maps with finite range structure. (English summary) **2000j:37009**

37A50 Relations with probability theory and stochastic processes [see also 60Fxx and 60G10]

Schmidt, Klaus[1] Tail-fields of products of random variables and ergodic equivalence relations. (English summary) **2000k:37007**
Yuri, Michiko Statistical properties for nonhyperbolic maps with finite range structure. (English summary) **2000j:37009**

Items with secondary classifications in 37A50

Ahn, Tae Hoon *see* **Kim, Tae Sik et al.**, **2000f:28008**
Ambroladze, Amiran Ergodic properties of random iterations of analytic functions. (English summary) **2000m:37076**
Baxter, Laurence A. Dynamical systems defined on point processes. (English summary) **2000b:60175**
Bezzarga, Mounir Co-excessive functions and duality for semi-dynamical systems. **2000b:31012**
Bressaud, Xavier (*with* Fernández, Roberto; Galves, Antonio) Decay of correlations for non-Hölderian dynamics. A coupling approach. (English summary) **2000j:60049**
Collet, Pierre (*with* Martínez, Servet A.) Diffusion coefficient in transient chaos. (English summary) **2000h:37007**
— (*with* Galves, Antonio; Schmitt, Bernard) Repetition times for Gibbsian sources. (English summary) **2000g:60058**
Courbage, Maurice Dynamical aspects of processes with long-range memory. **2000c:37004**
Denker, Manfred (*with* Gordin, Mikhail) Remarks on Gibbs measures for fibred systems. **2000b:37001**
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Froyland, Gary Ulam's method for random interval maps. (English summary) **2000f:37069**
Galves, Antonio *see* **Collet, Pierre et al.**, **2000g:60058** *and* **Bressaud, Xavier et al.**, **2000j:60049**
Gordin, Mikhail *see* **Denker, Manfred**, **2000b:37001**
Guillotin-Plantard, Nadine (*with* Schneider, Dominique) Ergodic theorems for dynamic random walks. (English and French summaries) **2000g:28038**
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Gundlach, Matthias (*with* Kifer, Yuri) Expansiveness, specification, and equilibrium states for random bundle transformations. (English summary) **2000k:37072**
Iwanik, A. (*with* Serafin, Jacek) Code length between Markov processes. (English summary) **2000k:37006**
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Le Borgne, Stéphane Limit theorems for non-hyperbolic automorphisms of the torus. (English summary) **2000a:37001**
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Schmitt, Bernard *see* **Collet, Pierre et al.**, **2000g:60058**
Schneider, Dominique *see* **Guillotin-Plantard, Nadine**, **2000g:28038**
Serafin, Jacek *see* **Iwanik, A.**, **2000k:37006**
Weiss, Benjamin ★ Single orbit dynamics. (English summary) **2000k:37001**

37A55 Relations with the theory of C^*-algebras [See mainly 46L55]

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Dorofeev, S. V. (*with* Thomsen, Klaus) Factors and subfactors arising from inductive limits of interval algebras. (English summary) **2000g:46088**
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37A60 Dynamical systems in statistical mechanics [see also 82Cxx]

Gurevich, B. M. (*with* Tempel'man, A. A.) The Hausdorff dimension and thermodynamic formalism. (Russian) **2000f:37007**
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Bálint, Péter Chaotic and ergodic properties of cylindric billiards. (English summary) **2000i:37045**
Cohen, E. G. D. (*with* Gallavotti, Giovanni) Note on two theorems in nonequilibrium statistical mechanics. (English summary) **2000k:82057**
Donnay, Victor J. Non-ergodicity of two particles interacting via a smooth potential. (English summary) **2000k:37091**
Gallavotti, Giovanni *see* **Cohen, E. G. D.**, **2000k:82057**
Pustyl'nikov, L. D. The law of entropy increase, and generalized billiards. (Russian) **2000h:82056**
Simányi, Nándor Studying dynamical systems with algebraic tools. **2000c:37040**
— (*with* Szász, Domokos) Hard ball systems are completely hyperbolic. (English summary) **2000a:37016**
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Szász, Domokos *see* **Simányi, Nándor**, **2000a:37016**

37A99 None of the above, but in this section

Aizawa, Yoji Comments on the non-stationary chaos. (English summary) **2000h:37006**
Buzzi, Jérôme Markov extensions for multi-dimensional dynamical systems. (English summary) **2000m:37008**
Collet, Pierre (*with* Martínez, Servet A.) Diffusion coefficient in transient chaos. (English summary) **2000h:37007**
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Ding, Jiu (*with* Zhou, Ai Hui) Computing fixed points of quasi-compact Frobenius-Perron operators. **2000g:37009**
Driebe, Dean J. Approach to equilibrium of chaotic systems. (English summary) **2000d:37007**
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Abarenkova, N. I. (*with* Anglès d'Auriac, J.-Ch.; Boukraa, S.; Hassani, Saoud; Maillard, J.-M.) Real Arnold complexity versus real topological entropy for birational transformations. (English summary) **2000k:37027**
Akin, Ethan Simplicial dynamical systems. (English summary) **2000a:54066**
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Bedford, Eric (*with* Smillie, John) Polynomial diffeomorphisms of $\mathbf{C}^2$. V. Critical points and Lyapunov exponents. (English summary) **2000i:32029**
Biryukov, Petr A. (*with* Mishkin, V. V.) Set ideals with maximal symmetry group and minimal dynamical systems. (English summary) **2000i:20002**
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Falconer, K. J. Generalized dimensions of measures on self-affine sets. (English summary) **2000i:28008**
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He, Wei Hong (*with* Lou, Jun; Jia, Bao Guo) The Cantor dust and a Sierpiński carpet. (Chinese. English and Chinese summaries)
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Le Borgne, Stéphane Algébricité des partitions markoviennes des automorphismes hyperboliques du tore. (English and French summaries) [Algebraicity of Markov partitions for hyperbolic automorphisms of the torus] **2000h:37039**
Liverani, Carlangelo (*with* Saussol, Benoît; Vaienti, Sandro) A probabilistic approach to intermittency. (English summary) **2000d:37029**
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Vilela Mendes, R. Clustering and synchronization with positive Lyapunov exponents. (English summary) **2000c:37038**
Voorhees, Burton Fractal dimension, probability and entropy in matrix and summation substitution systems. (English summary) **2000i:28009**
Yuri, Michiko Zeta functions for certain non-hyperbolic systems and topological Markov approximations. (English summary) **2000j:37024**
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37Bxx Topological dynamics [see also 54H20]

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Akin, Ethan ★ Recurrence in topological dynamics. **2000c:37014**
— Simplicial dynamical systems. (English summary) **2000a:54066**
(Alsedà, Lluís) *see* **Discrete dynamical systems, 2000g:37004**
Geurts, Frédéric ★ Abstract compositional analysis of iterated relations. (English summary) **2000k:68110**
(Llibre, Jaume) *see* **Discrete dynamical systems, 2000g:37004**
(Misiurewicz, Michał) *see* **Discrete dynamical systems, 2000g:37004**
(Sintzoff, Michel) *see* **Geurts, Frédéric, 2000k:68110**
Vesentini, Edoardo An introduction to topological dynamics in dimension one. (Italian summary) **2000d:54042**

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37B05 Transformations and group actions with special properties (minimality, distality, proximality, etc.)

Alpern, Steve (*with* Prasad, V. S.) Chaotic homeomorphisms of $\mathbf{R}^n$, lifted from torus homeomorphisms. (English summary) **2000f:37008**
Fan, Qin Jie *see* **Liao, Gong Fu et al., 2000j:37010**
Font, Juan J. (*with* Sanchis, Manuel) On extensions of dynamical systems by function algebras. (English summary) **2000i:37005**
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Prasad, V. S. *see* **Alpern, Steve, 2000f:37008**
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Arrowsmith, D. K. *see* **Place, C. M., 2000k:37047**
Biryukov, Petr A. (*with* Mishkin, V. V.) Set ideals with maximal symmetry group and minimal dynamical systems. (English summary) **2000i:20002**
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Knight, Ronald A. Compact minimal sets in continuous recurrent flows. **2000k:37013**
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— (*with* Weiss, Benjamin) Mean topological dimension. (English summary) **2000m:37018**
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Raith, Peter Topological transitivity for expanding monotonic mod one transformations with two monotonic pieces. (English summary) **2000k:37049**
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37B10 Symbolic dynamics [see also 37Cxx, 37Dxx]

Bruin, Henk Planar embeddings of inverse limit spaces of unimodal maps. (English summary) **2000g:37010**
Chekhova, Nataliya Covering numbers of rotations. (English summary) **2000h:37010**
Crannell, A. A chaotic, non-mixing subshift. **2000g:37011**
Goetz, Arek Dynamics of a piecewise rotation. (English summary) **2000f:37009**
— Sofic subshifts and piecewise isometric systems. (English summary) **2000j:37011**
Gonçalves, W. M. (*with* Pinto, R. D.; Sartorelli, J. C.) Symbolic dynamics analysis in the dripping faucet experiment. (English summary)
Günther, Bernd Barycentric subdivisions of partitions with applications to higher-dimensional symbolic dynamics and limit expansions of homeomorphisms. (English summary) **2000b:37002**
Ha, Young-Hwa Factor codes of shifts of finite type. (English summary) **2000i:37006**
— Splitting, amalgamation, and strong shift equivalence of nonnegative integral matrices. (English summary) **2000g:37012**
Holton, Charles (*with* Zamboni, Luca Q.) Geometric realizations of substitutions. (English and French summaries) **2000c:37008**
— (*with* Zamboni, Luca Q.) Substitutions, partial isometries of $\mathbf{R}$, and actions on trees. (English summary) **2000j:37012**
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Hong, Ling (*with* Xu, Jian Xue) Crises and chaotic transients studied by the generalized cell mapping digraph method. (English summary) **2000g:37013**
Jiang, Hai Jing A note on weakly almost periodic points. (Chinese. English and Chinese summaries) **2000c:37009**
Karamanos, K. (*with* Nicolis, G.) Symbolic dynamics and entropy analysis of Feigenbaum limit sets. (English summary) **2000g:37014**
Kim, Ki Hang (*with* Roush, F. W.; Wagoner, J. B.) The shift equivalence problem. **2000h:37011**
Li, Kai Tai *see* **Li, Ming Jun, 2000d:37008**
Li, Ming Jun (*with* Li, Kai Tai) A class of symbolic dynamical systems describing chaotic maps. (Chinese. English and Chinese summaries) **2000d:37008**
Máté, László A weighted König lemma for symbolic dynamics. (English summary) **2000h:37012**
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Shapovalov, S. A. The depth invariant for group actions on countable phase spaces. (Russian. Russian summary) **2000i:37007**
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Zgliczyński, Piotr Symbolic dynamics for the Rössler folded towel map. **2000g:37015**
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Bosio, D. (*with* Vivaldi, F.) Round-off errors and p-adic numbers. (English summary) **2000k:37130**
Broomhead, D. S. (*with* Huke, J. P.; Muldoon, M. R.) Codes for spread spectrum applications generated using chaotic dynamical systems. (English summary) **2000d:94009**
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Choe, Geon Ho (*with* Kim, Dong Han; Kim, Young-One; Lee, Jungseob) Endomorphisms of subshifts. (English summary) **2000j:37015**
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— Transversal intersection of separatrices and branching of solutions as obstructions to the existence of an analytic integral in many-dimensional systems. I. Basic result: separatrices of hyperbolic periodic points. (English summary) **2000k:37033**
Downarowicz, T. Reading along arithmetic progressions. (English summary) **2000f:54031**
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Fan, Ai Hua (*with* Pollicott, Mark) Generalized equilibrium states and behavior of averaging operators. (English and French summaries) **2000d:37005**
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Galias, Zbigniew Rigorous numerical studies of the existence of periodic orbits for the Hénon map. (English summary) **2000a:37008**
Gurevich, B. M. (*with* Savchenko, S. V.) Thermodynamic formalism for symbolic Markov chains with a countable number of states. (Russian) **2000c:28028**
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— (*with* Polyakov, A. B.) Stably recurrent functions on the loop space of a countable graph. (Russian) **2000k:37012**
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Károlyi, György (*with* Domokos, Gábor) Symbolic dynamics of infinite depth: finding global invariants for BVPs. (English summary) **2000g:74026**
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37B20 Notions of recurrence

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37B25 Lyapunov functions and stability; attractors, repellers

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37B30 Index theory, Morse-Conley indices

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37B35 Gradient-like and recurrent behavior; isolated (locally-maximal) invariant sets

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37B40 Topological entropy

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37B45 Continua theory in dynamics

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37Cxx Smooth dynamical systems: general theory [see also 34Cxx, 34Dxx]

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37C05 Smooth mappings and diffeomorphisms

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37C15 Topological and differentiable equivalence, conjugacy, invariants, moduli, classification

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37C20 Generic properties, structural stability

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37C25 Fixed points, periodic points, fixed-point index theory

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37C30 Zeta functions, (Ruelle-Frobenius) transfer operators, and other functional analytic techniques in dynamical systems

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37C35 Orbit growth

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37C40 Smooth ergodic theory, invariant measures [see also 37Dxx]

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37C45 Dimension theory of dynamical systems

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Astels, S. Thickness measures for Cantor sets. (English summary)
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37C50 Approximate trajectories (pseudotrajectories, shadowing, etc.)

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37C55 Periodic and quasiperiodic flows and diffeomorphisms

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37C60 Nonautonomous smooth dynamical systems [see also 37B55]

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37C65 Monotone flows

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37C70 Attractors and repellers, topological structure

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37C80 Symmetries, equivariant dynamical systems

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37Dxx Dynamical systems with hyperbolic behavior

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37D05 Hyperbolic orbits and sets

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37D10 Invariant manifold theory

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37D15 Morse-Smale systems

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37D20 Uniformly hyperbolic systems (expanding, Anosov, Axiom A, etc.)

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Nicol, Matthew (*with* Pollicott, Mark) Measurable cocycle rigidity for some non-compact groups. (English summary) **2000k:37004**
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Wang, Shi Cheng (*with* Wu, Ying-Qing; Zhou, Qing[1]) Pseudo-Anosov maps and simple closed curves on surfaces. (English summary) **2000j:37054**
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37D25 Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)

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37D30 Partially hyperbolic systems and dominated splittings

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Wilkinson, Amie *see* **Burns, Keith, 2000g:37030**

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Wilkinson, Amie *see* **Hasselblatt, Boris, 2000f:37035**

37D35 Thermodynamic formalism, variational principles, equilibrium states

Fan, Ai Hua (*with* Jiang, Yunping) Lyapunov exponents, dual Lyapunov exponents, and multifractal analysis. (English summary) **2000h:37041**
Froyland, Gary Using Ulam's method to calculate entropy and other dynamical invariants. (English summary) **2000g:37031**
Järvenpää, Esa A note on weakly coupled expanding maps on compact manifolds. (English summary) **2000j:37038**
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37D40 Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)

Albuquerque, Paul Support des mesures de Patterson-Sullivan en rang supérieur. [Support of higher-rank Patterson-Sullivan measures] (*see* **2000f:00014**)
Babillot, Martine Géodésiques et horocycles sur le revêtement d'homologie d'une surface hyperbolique. (French summary) [Geodesics and horocycles on the homology covering of a hyperbolic surface] (*see* **2000f:00014**)
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Dal'bo, Françoise (*with* Peigné, Marc) Comportement asymptotique du nombre de géodésiques fermées sur la surface modulaire en courbure non constante. (English and French summaries) [Asymptotic behavior of the number of closed geodesics on the modular surface of non-constant curvature] **2000b:37022**
Gerber, Marlies (*with* Niţică, Viorel) Hölder exponents of horocycle foliations on surfaces. (English summary) **2000h:37042**
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37D45 Strange attractors, chaotic dynamics

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Alvarez-Ramírez, José *see* **Femat, Ricardo et al., 2000m:37038**
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Argyris, John (*with* Andreadis, Ioannis; Pavlos, Georgios; Athanasiou, Michalis) On a classification of dynamic systems subject to noise. (English summary) **2000h:37043**
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Aston, Philip J. (*with* Bird, C. M.) Using control of chaos to refine approximations to periodic points. (English summary) **2000k:37037**
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— (*with* Liu, Zeng Rong) The geometric structure of strange attractors in the Lozi map. (English summary) **2000d:37033**
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37D50 Hyperbolic systems with singularities (billiards, etc.)

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37Exx Low-dimensional dynamical systems

Items with secondary classifications in 37Exx

(Alsedà, Lluís) *see* **Discrete dynamical systems**, **2000g:37004**
(Forti, Gian-Luigi) *see* **Iteration theory (ECIT '96)**, **2000m:37002**
(Gardini, Laura) *see* **Iteration theory (ECIT '96)**, **2000m:37002**
(Gronau, Detlef) *see* **Iteration theory (ECIT '96)**, **2000m:37002**
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(Misiurewicz, Michał) *see* **Discrete dynamical systems**, **2000g:37004**
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37E05 Maps of the interval (piecewise continuous, continuous, smooth)

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37E10 Maps of the circle

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37E15 Combinatorial dynamics (types of periodic orbits)

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37E20 Universality, renormalization [see also 37F25]

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Dzhalilov, A. A. Thermodynamic formalism for a family of homeomorphisms of the circle with a break. (Russian. English and Uzbek summaries) **2000c:37048**
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Kuznetsov, Sergeĭ Petrovich[1] *see* **Kuznetsov, A. P. et al., 2000d:37039**
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Smith, Jonathan D. H. Wreath products along the period-doubling route to chaos. (English summary) **2000j:37046**
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St. Pierre, Matthias Topological and measurable dynamics of Lorenz maps. **2000h:37053**
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37E25 Maps of trees and graphs

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Gu, Rongbao (*with* Zheng, Zu Xiu) The attracting centre of a continuous tree map. (English summary) **2000k:37011**
Gurevich, B. M. (*with* Polyakov, A. B.) Stably recurrent functions on the loop space of a countable graph. (Russian) **2000k:37012**
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Nitecki, Zbigniew (*with* Przytycki, Feliks) Preimage entropy for mappings. (English summary) **2000j:37025**
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del Río, M. A. *see* **Alsedà, Lluís et al., 2000i:37056**
Rodríguez, José Angel *see* **Alsedà, Lluís et al., 2000i:37056**
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37E30 Homeomorphisms and diffeomorphisms of planes and surfaces

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Bonatti, Christian (*with* Kolev, Boris) Surface homeomorphisms with zero-dimensional singular set. (English summary) **2000d:37046**
de Carvalho, André Pruning fronts and the formation of horseshoes. (English summary) **2000j:37050**
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Collins, Pieter Dynamics forced by surface trellises. (English summary) **2000i:37058**
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Fontich, Ernest Stable curves asymptotic to a degenerate fixed point. **2000a:37024**
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Guaschi, John (*with* Llibre, Jaume) Orders and periods of algebraically-finite surface maps. (English summary) **2000c:37053**
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Miller, J. R. (*with* Yorke, James A.) Finding all periodic orbits of maps using Newton methods: sizes of basins. (English summary) **2000k:37055**
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37E35 Flows on surfaces

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— (*with* Zhuzhoma, E. V.; Tel′nykh, I. A.) Transitive and supertransitive flows on closed nonorientable surfaces. (Russian) **2000b:37036**
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Tel′nykh, I. A. *see* **Aranson, S. Kh. et al., 2000b:37036**
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Ciesielski, Krzysztof[1] An elementary proof of the connectedness of cuts in 2-dimensional semiflows. **2000i:37014**
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Hof, A. (*with* Knill, Oliver) Zero-dimensional singular continuous spectrum for smooth differential equations on the torus. (English summary) **2000g:37008**
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37E40 Twist maps

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Siburg, Karl Friedrich A dynamical systems approach to Birkhoff's theorem. (English summary) **2000c:37055**
— Aubry-Mather theory and the inverse spectral problem for planar convex domains. (English summary) **2000h:37060**
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— Monotone gradient dynamics and Mather's shadowing. (English summary) **2000f:37049**

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Celletti, Alessandra Rigorous and numerical determination of rotational invariant curves for the standard map. (English summary) **2000d:37071**
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— Boundedness in asymmetric oscillations. (English summary) **2000c:34093**
Lopes, Artur Oscar *see* **Carneiro, M. J. Dias, 2000h:37100**
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Ortega, Rafael Boundedness in a piecewise linear oscillator and a variant of the small twist theorem. **2000g:34055**
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Sinaĭ, Ya. G. A mechanism of ergodicity in standard-like maps. (*see* **2000f:37004**)
Wang, Zai Hong Multiplicity of periodic solutions of semilinear Duffing's equation at resonance. (English summary) **2000i:34081**
Wodnar, Karl (*with* Ichtiaroglou, Simos; Meletlidou, Efi) Non-integrability and continuation of fixed points of $2n$-dimensional perturbed twist maps. (English summary) **2000d:37066**

37E45 Rotation numbers and vectors

Athanassopoulos, Konstantin Rotation of orbits and isometric systems. (*see* **2000i:53003**)

Gülcü, Aslan On statistically rotation sets for maps of the C_m-class. (English and Turkish summaries) **2000e:37047**
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Blokh, A. M. (*with* Misiurewicz, Michał) Entropy and over-rotation numbers for interval maps. **2000c:37050**
Dzhalilov, A. A. Singularity exponents of invariant measures of homeomorphisms of a circle with breaks. (Russian. English and Uzbek summaries) **2000g:37005**
Falcó, Antonio *see* **Balibrea Gallego, Francisco, 2000m:37054**
Glendinning, Paul (*with* Wiersig, Jan) Fine structure of mode-locked regions of the quasi-periodically forced circle map. (English summary) **2000d:37041**
Huang, Wenzao *see* **Li, Tie Cheng[2], 2000e:34071**
Jiang, Mei Yue On a theorem by Mather and Aubry-Mather sets for planar Hamiltonian systems. (English summary) **2000m:37135**
Kwapisz, Jarek (*with* Swanson, Richard) Annulus and billiard maps with asymptotic entropy. (English summary) **2000m:37066**
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37E99 None of the above, but in this section

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Ampilova, N. B. Determination of the periodic points in a neighborhood of invariant curves of the Gardini mapping. (Russian) (*see* **2000m:34003**)
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— (*with* Gardini, Laura; Mira, Christian) Unbounded not diverging trajectories in maps with a vanishing denominator. (English summary) **2000k:37058**
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Goetz, Arek Perturbations of 8-attractors and births of satellite systems. (English summary) **2000b:37038**
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— (*with* Anglès d'Auriac, J.-Ch.; Boukraa, S.; Hassani, Saoud; Maillard, J.-M.) Real Arnold complexity versus real topological entropy for birational transformations. (English summary) **2000k:37027**
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37F15 Expanding maps; hyperbolicity; structural stability

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Sester, Olivier Hyperbolicité des polynômes fibrés. (English and French summaries) [Hyperbolicity of fibered polynomials] **2000j:37057**
Smirnov, Stanislav K. *see* **Graczyk, Jacek, 2000a:37029**
Sumi, Hiroki Dynamics of sub-hyperbolic and semi-hyperbolic rational semigroups and conformal measures of rational semigroups. (English summary) **2000e:37052**

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Graczyk, Jacek (*with* Świątek, Grzegorz) ★ The real Fatou conjecture. **2000a:37020**
Ishii, Yutaka Recent results of Bedford and Smillie concerning complex dynamical systems on $\mathbf{C}^2$. (Japanese. English summary) **2000c:32063**
Jonsson, Mattias Dynamics of polynomial skew products on $\mathbf{C}^2$. **2000f:32025**
Lyubich, Mikhail Regular and stochastic dynamics in the real quadratic family. (English summary) **2000c:37060**
— Feigenbaum-Coullet-Tresser universality and Milnor's hairiness conjecture. (English summary) **2000d:37051**
Przytycki, Feliks (*with* Rohde, Steffen) Porosity of Collet-Eckmann Julia sets. (English summary) **2000b:37047**
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37F20 Combinatorics and topology

Roesch, Pascale Puzzles de Yoccoz pour les applications à allure rationnelle. [Yoccoz puzzles for mappings with rational allure] **2000g:37050**

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Devaney, Robert L. Cantor bouquets, explosions, and Knaster continua: dynamics of complex exponentials. (English summary) **2000d:37058**
Harris, David M. Turning curves for critically recurrent cubic polynomials. (English summary) **2000a:37028**
Kameyama, Atsushi Julia sets of postcritically finite rational maps and topological self-similar sets. (English summary) **2000m:28009**
Pilgrim, Kevin M. (*with* Tan, Lei[1]) Combining rational maps and controlling obstructions. (English summary) **2000k:37061**
Tan, Lei[1] Branched coverings and cubic Newton maps. (English summary) **2000e:37051**
— *see also* **Pilgrim, Kevin M., 2000k:37061**

37F25 Renormalization

Lyubich, Mikhail Feigenbaum-Coullet-Tresser universality and Milnor's hairiness conjecture. (English summary) **2000d:37051**
Riedl, Johannes (*with* Schleicher, Dierk) On the locus of crossed renormalization. (English summary) **2000d:37052**
Schleicher, Dierk *see* **Riedl, Johannes, 2000d:37052**
Yampolsky, Michael Complex bounds for renormalization of critical circle maps. (English summary) **2000d:37053**

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Burbanks, A. D. (*with* Osbaldestin, A. H.; Stirnemann, A.) Rigorous bounds on the Hausdorff dimension of Siegel disc boundaries. (English summary) **2000e:37053**
Epstein, Adam (*with* Yampolsky, Michael) Geography of the cubic connectedness locus: intertwining surgery. (English and French summaries) **2000i:37067**
Goetz, Arek Perturbations of 8-attractors and births of satellite systems. (English summary) **2000b:37038**
Hu, Jun[2] Feigenbaum's rigidities and dynamical systems between simple and chaotic. (English and Chinese summaries) **2000e:37037**
Okuyama, Yuusuke Brjuno numbers and non-linearizability of polynomials of degree more than two. (English summary) **2000c:37064**
Osbaldestin, A. H. *see* **Burbanks, A. D. et al., 2000e:37053**
Petersen, Carsten Lunde Puzzles and Siegel disks. **2000a:37031**
Prado, Eduardo A. Conformal measures and Hausdorff dimension for infinitely renormalizable quadratic polynomials. (English summary) **2000c:37062**
Stirnemann, A. *see* **Burbanks, A. D. et al., 2000e:37053**
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37F30 Quasiconformal methods and Teichmüller theory; Fuchsian and Kleinian groups as dynamical systems

Bullett, Shaun (*with* Penrose, Christopher) Perturbing circle-packing Kleinian groups as correspondences. (English summary) **2000d:37054**
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Cui, Guizhen (*with* Jiang, Yunping; Quas, Anthony N.) Scaling functions, Gibbs measures, and Teichmüller spaces of circle endomorphisms. (English summary) **2000f:37023**
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Kaimanovich, V. A. Ergodic properties of the horocycle flow and classification of Fuchsian groups. (English summary) **2000m:37033**
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Mayer, Volker Quasiregular analogues of critically finite rational functions with parabolic orbifold. (English summary) **2000a:30043**
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Stankewitz, Rich Uniformly perfect sets, rational semigroups, Kleinian groups and IFS's. (English summary) **2000m:37075**
Świątek, Grzegorz *see* **Graczyk, Jacek, 2000a:37020**
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Zakeri, Saeed Dynamics of cubic Siegel polynomials. (English summary) **2000m:37073**

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37F35 Conformal densities and Hausdorff dimension

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Urbański, Mariusz *see* **Przytycki, Feliks, 2000i:37065** *and* **Stratmann, B. O., 2000i:37066**

37F45 Holomorphic families of dynamical systems; the Mandelbrot set; bifurcations

Álvarez, Gonzalo (*with* Romera, Miguel; Pastor, Gerardo; Montoya, Fausto V.) Determination of Mandelbrot set's hyperbolic component centres. (English summary) **2000d:37056**
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Fornæss, John Erik (*with* Gavosto, Estela Ana) Tangencies for real and complex Hénon maps: an analytic method. (English summary) **2000m:37070**
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— *see also* **Yan, De Jun et al., 2000i:37069**;**Wang, Xing Yuan et al., 2000j:37058** *and* **2000m:37072**
Montaldi, J. A. *see* **Peckham, Bruce B., 2000m:37071**
Montoya, Fausto V. *see* **Álvarez, Gonzalo et al., 2000d:37056**
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Wang, Xing Yuan (*with* Liu, Xiang Dong; Zhu, Wei Yong) General Mandelbrot sets constructed from the complex map $z \leftarrow z^\alpha + c$ ($\alpha < 0$). (Chinese. English and Chinese summaries) **2000m:37072**
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Galeeva, R. (*with* Verjovsky, A.) Quaternion dynamics and fractals in $\mathbf{R}^4$. (English summary) **2000g:37052**
Gavosto, Estela Ana Attracting basins in $\mathbf{P}^2$. (English summary) **2000e:32025**
Hu, Jun² Feigenbaum's rigidities and dynamical systems between simple and chaotic. (English and Chinese summaries) **2000e:37037**
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Lyubich, Mikhail Feigenbaum-Coullet-Tresser universality and Milnor's hairiness conjecture. (English summary) **2000d:37051**
Riedl, Johannes (*with* Schleicher, Dierk) On the locus of crossed renormalization. (English summary) **2000d:37052**
Schleicher, Dierk *see* **Riedl, Johannes, 2000d:37052**
Shiga, Hiroshige Holomorphic families of rational maps. **2000d:30038**
Shishikura, Mitsuhiro The Hausdorff dimension of the boundary of the Mandelbrot set and Julia sets. (English summary) **2000f:37056**
Verjovsky, A. *see* **Galeeva, R., 2000g:37052**
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Zhang, Guang Yuan¹ Bifurcations of periodic points of holomorphic maps from $\mathbf{C}^2$ into $\mathbf{C}^2$. **2000f:32027**
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37F50 Small divisors, rotation domains and linearization; Fatou and Julia sets

Arteaga, Carlos Conjugacies absolutely continuous with respect to the Hausdorff measure for Julia sets. (English summary)
Bargmann, Detlef Simple proofs of some fundamental properties of the Julia set. (English summary) **2000d:37057**
Buff, Xavier (*with* Henriksen, Christian) Scaling ratios and triangles in Siegel disks. (English summary) **2000h:37069**
Devaney, Robert L. Cantor bouquets, explosions, and Knaster continua: dynamics of complex exponentials. (English summary) **2000d:37058**
Galeeva, R. (*with* Verjovsky, A.) Quaternion dynamics and fractals in $\mathbf{R}^4$. (English summary) **2000g:37052**
Geyer, Lukas Porosity of parabolic Julia sets. (English summary) **2000e:37055**
Hao, Zhi Feng *see* **Yang, Degui et al., 2000b:37050**
He, Ping³ *see* **Zhan, Yong et al., 2000i:37070**
Henriksen, Christian *see* **Buff, Xavier, 2000h:37069**
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Krüger, Tyll (*with* Pustyl'nikov, L. D.; Troubetzkoy, Serge) The nonautonomous function-theoretic center problem. (English summary) **2000c:37063**
Li, Wan-She (*with* Ren, Fu Yao) Domains of explosion of the dynamic system generated by $P(\lambda e^z + \mu e^{-z})$. (English summary) **2000b:37044**
Malyarenko, A. A. V. M. Shurenkov sets and their computer modeling. (Ukrainian. Ukrainian summary)
Morosawa, Shunsuke Local connectedness of Julia sets for transcendental entire functions. **2000m:37074**
Okuyama, Yuusuke Brjuno numbers and non-linearizability of polynomials of degree more than two. (English summary) **2000c:37064**
— Non-linearizability of polynomials at irrationally indifferent fixed points. (English summary) **2000b:37045**
Petersen, Carsten Lunde Puzzles and Siegel disks. **2000a:37031**
Poon, Kin-Keung Fatou-Julia theory on transcendental semigroups. (English summary) **2000b:37046**
— Fatou-Julia theory on transcendental semigroups. II. (English summary) **2000e:37056**
Przytycki, Feliks (*with* Rohde, Steffen) Porosity of Collet-Eckmann Julia sets. (English summary) **2000b:37047**
Pustyl'nikov, L. D. *see* **Krüger, Tyll et al., 2000c:37063**
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37F75 Holomorphic foliations and vector fields [see also 32M25, 32S65, 34Mxx]

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37H20 Bifurcation theory [see also 37Gxx]

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37J05 General theory, relations with symplectic geometry and topology

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37J45 Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods

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37J50 Action-minimizing orbits and measures

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37J55 Contact systems [see also 53D10]

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Brenier, Yann Minimal geodesics on groups of volume-preserving maps and generalized solutions of the Euler equations. (English summary) **2000c:58020**
Gliklikh, Yu. E. Modern Lagrangian approach to hydrodynamics and stochastic presentation for motion of viscous incompressible fluid. (*see* **2000h:47001**)
Mikulevičius, R. (*with* Valiukevičius, G.) On stochastic Euler equation. (English and Lithuanian summaries) **2000b:35285**
Pasini, Antonello (*with* Pelino, Vinicio; Potestà, Sergio) Torsion and attractors in the Kolmogorov hydrodynamical system. (English summary) **2000c:76019**
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37K99 None of the above, but in this section

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Kaper, Tasso J. An introduction to geometric methods and dynamical systems theory for singular perturbation problems. (English summary) **2000h:34090**

37Lxx Infinite-dimensional dissipative dynamical systems [see also 35Bxx, 35Qxx]

37L05 General theory, nonlinear semigroups, evolution equations

Bates, Peter W. (*with* Lu, Kening; Zeng, Chongchun) Persistence of overflowing manifolds for semiflow. **2000f:37116**
Chueshov, Igor D. The theory of functionals that uniquely determine the asymptotic dynamics of infinite-dimensional dissipative systems. (Russian) **2000b:37089**
Jones, Don A. (*with* Shkoller, Steve) Persistence of invariant manifolds for nonlinear PDEs. (English summary) **2000b:37090**
Lu, Kening *see* **Bates, Peter W. et al., 2000f:37116**
Matano, Hiroshi *see* **Ogiwara, Toshiko, 2000m:37175**
Ogiwara, Toshiko (*with* Matano, Hiroshi) Stability analysis in order-preserving systems in the presence of symmetry. (English summary) **2000m:37175**
Shkoller, Steve *see* **Jones, Don A., 2000b:37090**
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Arrieta, José M. (*with* Carvalho, Alexandre N.) Abstract parabolic problems with critical nonlinearities and applications to Navier-Stokes and heat equations. (English summary) **2000i:34115**
Babin, A. V. (*with* Chow, Shui-Nee) Uniform long-time behavior of solutions of parabolic equations depending on slow time. **2000a:35119**
Bates, Peter W. (*with* Lu, Kening; Zeng, Chongchun) Invariant foliations of overflowing manifolds for semiflows in Banach space. (English summary) **2000g:37027**
Bessaih, Hakima Stochastic weak attractor for a dissipative Euler equation. (English summary) **2000m:37178**
Bianchini, Stefano On the shift differentiability of the flow generated by a hyperbolic system of conservation laws. (English summary) **2000m:35120**
Carvalho, Alexandre N. *see* **Arrieta, José M., 2000i:34115**

Chow, Shui-Nee *see* **Babin, A. V., 2000a:35119**
Collet, Pierre (*with* Eckmann, Jean-Pierre) The definition and measurement of the topological entropy per unit volume in parabolic PDEs. (English summary) **2000m:37180**
Daners, Daniel (*with* Merino, Sandro) Gradient-like parabolic semiflows on BUC($\mathbf{R}^N$). (English summary) **2000a:35120**
Dawidowicz, Antoni Leon (*with* Haribash, Najemedin) On the periodic solutions of von Foerster type equation. **2000i:35017**
Eckmann, Jean-Pierre *see* **Collet, Pierre, 2000m:37180**
Goritskiĭ, A. Yu. *see* **Vishik, M. I., 2000e:34108**
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Kapitanskiĭ, L. V. (*with* Rodnianski, Igor) Shape and Morse theory of attractors. (English summary) **2000h:37019**
Latushkin, Yu. D. (*with* Layton, B.) The optimal gap condition for invariant manifolds. (English summary) **2000j:34086**
Layton, B. *see* **Latushkin, Yu. D., 2000j:34086**
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Pliss, Viktor Aleksandrovich (*with* Sell, George R.) Robustness of exponential dichotomies in infinite-dimensional dynamical systems. (English summary) **2000f:34092**
Rodnianski, Igor *see* **Kapitanskiĭ, L. V., 2000h:37019**
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Vishik, M. I. (*with* Goritskiĭ, A. Yu.) Local integral manifolds of a nonautonomous parabolic equation. (Russian. Russian summary) **2000e:34108**
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37L10 Normal forms, center manifold theory, bifurcation theory

Aston, Philip J. (*with* Laing, Carlo R.) Symmetry and chaos in the complex Ginzburg-Landau equation. I. Reflectional symmetries. (English summary) **2000i:37134**
Dockery, J. D. *see* **Raquepas, J. B., 2000h:37130**
Doelman, Arjen (*with* Gardner, Robert A.; Kaper, Tasso J.) Stability analysis of singular patterns in the 1D Gray-Scott model: a matched asymptotics approach. (English summary) **2000i:37136**
Gardner, Robert A. *see* **Doelman, Arjen et al., 2000i:37136**
Haller, György (*with* Menon, Govind K.; Rothos, Vassilios M.) Šilnikov manifolds in coupled nonlinear Schrödinger equations. (English summary) **2000h:37129**
Kaper, Tasso J. *see* **Doelman, Arjen et al., 2000i:37136**
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Lubich, Christian (*with* Ostermann, Alexander) Hopf bifurcation of reaction-diffusion and Navier-Stokes equations under discretization. (English summary) **2000m:37176**
Maier-Paape, Stanislaus (*with* Lauterbach, Reiner) Heteroclinic cycles for reaction diffusion systems by forced symmetry-breaking. (English summary) **2000j:37111**
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Belan, E. P. Integral manifolds of linear parabolic equations with rapidly oscillating principal part. Decomposition. Reduction principle. **2000k:35160**
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Callahan, T. K. (*with* Knobloch, Edgar) Pattern formation in three-dimensional reaction-diffusion systems. (English summary) **2000e:35098**
Chicone, Carmen (*with* Latushkin, Yu. D.) Center manifolds for infinite-dimensional nonautonomous differential equations. (English summary) **2000i:34117**
Craster, Richard V. *see* **Balmforth, N. J. et al., 2000d:80013**
Dangelmayr, Gerhard (*with* Wegelin, Michael) Hopf bifurcation in anisotropic systems. (English summary) **2000d:37061**
Faria, Teresa Normal forms and Hopf bifurcation for partial differential equations with delays. (English summary) **2000j:35261**
Hale, Jack K. (*with* Lin, Xiao-Biao) Multiple internal layer solutions generated by spatially oscillatory perturbations. (English summary) **2000c:35097**
Haller, György ★ Chaos near resonance. (English summary) **2000m:37001**
Ham, YoonMee A Hopf bifurcation in a generalized McKean type of free boundary problem satisfying the Dirichlet boundary condition. (English summary) **2000k:35301**
— (*with* Lee, Sang-Gu) A Hopf bifurcation of interfaces in a Dirichlet problem. (English summary) **2000j:35278**
Hărăguş-Courcelle, Mariana (*with* Schneider, Guido) Bifurcating fronts for the Taylor-Couette problem in infinite cylinders. (English summary) **2000a:76074**
Härterich, Jörg Equilibrium solutions of viscous scalar balance laws with a convex flux. **2000m:35102**
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Holmes, Philip (*with* Kutz, J. Nathan) Dynamics and bifurcations of a planar map modeling dispersion managed breathers. (English summary) **2000b:34080**
Ikeda, Hideo (*with* Ikeda, Tsutomu) Bifurcation phenomena from standing pulse solutions in some reaction-diffusion systems. (English summary) **2000m:35023**
Ikeda, Tsutomu *see* **Ikeda, Hideo, 2000m:35023**
James, Guillaume Small amplitude steady internal waves in stratified fluids. (English and Italian summaries) **2000b:76022**
Johnson, Russell A. (*with* Nistri, Paolo; Kamenskiĭ, Mikhail) Bifurcation of periodic solutions of the Navier-Stokes equations in a thin domain. (English summary) **2000k:76039**
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Kim, Yong-In Bifurcation in a discrete nonlinear diffusion equation. (English summary) **2000j:39016**
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Krömker, S. Wave bifurcation in models for heterogeneous catalysis. (English summary) **2000a:35123**
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Nistri, Paolo *see* **Johnson, Russell A. et al., 2000k:76039**
Pöschel, Jürgen Nonlinear partial differential equations, Birkhoff normal forms, and KAM theory. **2000a:37076**
Rubin, Jonathan E. Stability, bifurcations and edge oscillations in standing pulse solutions to an inhomogeneous reaction-diffusion system. (English summary) **2000m:35099**
Sandstede, Björn (*with* Scheel, Arnd; Wulff, Claudia) Bifurcations and dynamics of spiral waves. (English summary) **2000h:35020**
Scheel, Arnd *see* **Sandstede, Björn et al., 2000h:35020**
Schneider, Guido Global existence results for pattern forming processes in infinite cylindrical domains—applications to 3D Navier-Stokes problems. (English summary) **2000g:76029**
— *see also* **Hărăguş-Courcelle, Mariana, 2000a:76074**
Shatah, Jalal (*with* Zeng, Chongchun) Homoclinic orbits for the perturbed sine-Gordon equation. (English summary) **2000h:37133**
Shobukhov, A. V. Cycle-generating bifurcation produced by perturbation of nonlinear terms in a system of evolution equations. (*see* **2000d:00021**)
Skubachevskiĭ, A. L. On the Hopf bifurcation for a quasilinear parabolic functional-differential equation. (Russian. Russian summary) **2000k:35025**
Takáč, Peter *see* **Kaper, Hans G., 2000g:35194**
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Wen, Xian Zhang (*with* Zhou, Xiao Sha) An invariant manifold of exponential dichotomies and reaction-diffusion equations with time delays. (Chinese. English and Chinese summaries) **2000h:34127**
Wulff, Claudia *see* **Sandstede, Björn et al., 2000h:35020**
Zeng, Chongchun *see* **Shatah, Jalal, 2000h:37133**
Zhou, Xiao Sha *see* **Wen, Xian Zhang, 2000h:34127**

37L15 Stability problems

Aston, Philip J. (*with* Laing, Carlo R.) Symmetry and chaos in the complex Ginzburg-Landau equation. II. Translational symmetries. (English summary) **2000i:37135**
Laing, Carlo R. *see* **Aston, Philip J., 2000i:37135**

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Còmsul, N. (*with* Solà-Morales, J.) Stability of local minima and stable nonconstant equilibria. **2000i:35087**
Jiménez-Casas, A. (*with* Rodríguez-Bernal, Aníbal) Linear stability analysis and metastable solutions for a phase-field model. (English summary) **2000g:35099**
Kapitula, Todd (*with* Rubin, Jonathan E.) Existence and stability of standing hole solutions to complex Ginzburg-Landau equations. (English summary) **2000m:35166**
Kirchgässner, K. *see* **Raugel, G., 2000j:35133**
Latushkin, Yu. D. (*with* Layton, B.) The optimal gap condition for invariant manifolds. (English summary) **2000j:34086**
Layton, B. *see* **Latushkin, Yu. D., 2000j:34086**
Lykova, O. B. *see* **Belan, E. P., 2000c:35091**
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Nekhoroshev, N. N. Exponential stability of the approximate fundamental mode of a nonlinear wave equation. (Russian) **2000e:37136**
Ogiwara, Toshiko (*with* Matano, Hiroshi) Stability analysis in order-preserving systems in the presence of symmetry. (English summary) **2000m:37175**
Pliss, Viktor Aleksandrovich (*with* Sell, George R.) Robustness of exponential dichotomies in infinite-dimensional dynamical systems. (English summary) **2000f:34092**
Raugel, G. (*with* Kirchgässner, K.) Stability of fronts for a KPP-system. II. The critical case. (English summary) **2000j:35133**
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Rubin, Jonathan E. Stability, bifurcations and edge oscillations in standing pulse solutions to an inhomogeneous reaction-diffusion system. (English summary) **2000m:35099**
— *see also* **Kapitula, Todd, 2000m:35166**
Schneider, Guido Aspects of modulational dynamics—diffusive versus pulse behavior. (English summary) **2000j:35135**
Sell, George R. *see* **Pliss, Viktor Aleksandrovich, 2000f:34092**
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Tkach, B. P. Conditional stability of quasitoroidal manifolds of systems of partial differential equations. (Russian. English and Ukrainian summaries) **2000f:35019**

37L20 Symmetries

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Ogiwara, Toshiko (*with* Matano, Hiroshi) Monotonicity and convergence results in order-preserving systems in the presence of symmetry. (English summary) **2000k:37126**
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Wang, Bi Xiang *see* **Rodríguez-Bernal, Aníbal, 2000i:37138**

37L25 Inertial manifolds and other invariant attracting sets

Chepyzhov, V. V. (*with* Goritskiĭ, A. Yu.) Explicit construction of integral manifolds with exponential tracking. (English summary) **2000a:37079**
Goritskiĭ, A. Yu. *see* **Chepyzhov, V. V., 2000a:37079**
Langa, José A. (*with* Robinson, James Cooper) Determining asymptotic behavior from the dynamics on attracting sets. (English summary) **2000i:37137**
Robinson, James Cooper Inertial manifolds with and without delay. (English summary) **2000m:37177**
— *see also* **Langa, José A., 2000i:37137**
Rodríguez-Bernal, Aníbal (*with* Wang, Bi Xiang) Reduction of dimension of approximate inertial manifolds by symmetry. (English summary) **2000i:37138**
Wang, Bi Xiang *see* **Rodríguez-Bernal, Aníbal, 2000i:37138**

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Babin, A. V. (*with* Chow, Shui-Nee) Uniform long-time behavior of solutions of parabolic equations depending on slow time. **2000a:35119**
Balibrea Gallego, Francisco (*with* Valero, José) On dimension of attractors of differential inclusions and reaction-diffusion equations. (English summary) **2000k:37122**
Bates, Peter W. (*with* Lu, Kening; Zeng, Chongchun) Persistence of overflowing manifolds for semiflow. **2000f:37116**
Caraballo Garrido, Tomás (*with* Langa, José A.) Tracking properties of trajectories on random attracting sets. (English summary) **2000e:60100**
Chow, Shui-Nee *see* **Babin, A. V., 2000a:35119**
Ding, Wei *see* **Yin, Zhao Yang, 2000k:35033**
Duan, Jinqiao (*with* Ervin, Vincent J.; Gao, Hong Jun; Guo, Bo Ling) Inertial manifolds for a nonlocal Kuramoto-Sivashinsky equation. (English summary) (*see* **2000c:35003**)
Ervin, Vincent J. *see* **Duan, Jinqiao et al., (2000c:35003)**
Fabrie, Pierre (*with* Kostin, I. N.) Inertial sets for a model of convection in a porous medium and for its time discretization. (English summary) **2000b:76101**
Gao, Hong Jun (*with* Guo, Bo Ling) Global dynamics and control of a nonlinear body equation with strong structural damping. (English summary) **2000d:35236**
— *see also* **Duan, Jinqiao et al., (2000c:35003)**
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Guo, Bo Ling *see* **Gao, Hong Jun, 2000d:35236** *and* **Duan, Jinqiao et al., (2000c:35003)**
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— *see also* **Li, Kai Tai, 2000f:37118**
Jiang, Murong *see* **Lin, Guo Guang, 2000e:35215**
Jiménez-Casas, A. (*with* Rodríguez-Bernal, Aníbal) Finite-dimensional asymptotic behavior in a thermosyphon including the Soret effect. (English summary) **2000d:76060**
Jones, Don A. (*with* Shkoller, Steve) Persistence of invariant manifolds for nonlinear PDEs. (English summary) **2000b:37090**
Kostin, I. N. *see* **Fabrie, Pierre, 2000b:76101**
Kwean, Hyukjin An extension of the principle of spatial averaging for inertial manifolds. (English summary) **2000a:35124**
Langa, José A. (*with* Robinson, James Cooper) Study of the asymptotic behavior of PDEs based on the finite-dimensional dynamics of their attractors. (Spanish) **2000b:37091**
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Li, Kai Tai (*with* He, Yin Nian) Stability of inertial algorithms. (English summary) **2000f:37118**
Lin, Guo Guang (*with* Jiang, Murong) An inertial manifold of the generalized Ginzburg-Landau equations. (English summary) **2000e:35215**
Lin, Yu Rui (*with* Tian, Li Xin; Liu, Zeng Rong) The wild solutions of the induced form under the spline wavelet basis in weakly damped forced KdV equation. [The mild solutions of the reduced form under the spline wavelet basis in weakly damped forced KdV equation] (Chinese. English and Chinese summaries) **2000k:35247**
Liu, Zeng Rong *see* **Lin, Yu Rui et al., 2000k:35247**
Liu, Zhi Xing *see* **He, Yin Nian, 2000f:37117**
Lu, Kening *see* **Bates, Peter W. et al., 2000f:37116**
Robinson, James Cooper Global attractors: topology and finite-dimensional dynamics. (English summary) **2000k:37123**
— *see also* **Langa, José A., 2000b:37091**
Rodríguez-Bernal, Aníbal *see* **Jiménez-Casas, A., 2000d:76060**
Shkoller, Steve *see* **Jones, Don A., 2000b:37090**
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Valero, José *see* **Balibrea Gallego, Francisco, 2000k:37122**
Vishik, M. I. (*with* Goritskiĭ, A. Yu.) Local integral manifolds of a nonautonomous parabolic equation. (Russian. Russian summary) **2000e:34108**
Yin, Zhao Yang (*with* Ding, Wei) Approximate inertial manifolds for nonautonomous reaction-diffusion equations. (Chinese. English and Chinese summaries) **2000k:35033**
Zeng, Chongchun *see* **Bates, Peter W. et al., 2000f:37116**

37L30 Attractors and their dimensions, Lyapunov exponents

Balibrea Gallego, Francisco (*with* Valero, José) On dimension of attractors of differential inclusions and reaction-diffusion equations. (English summary) **2000k:37122**
Bessaih, Hakima Stochastic weak attractor for a dissipative Euler equation. (English summary) **2000m:37178**
Carvalho, Alexandre N. (*with* Cholewa, Jan W.; Dlotko, Tomasz) Global attractors for problems with monotone operators. (Italian summary) **2000i:37139**
— (*with* Hines, Gwendolen) Lower semicontinuity of attractors for gradient systems. (English summary) **2000m:37179**
Cholewa, Jan W. *see* **Carvalho, Alexandre N. et al., 2000i:37139**
Collet, Pierre (*with* Eckmann, Jean-Pierre) The definition and measurement of the topological entropy per unit volume in parabolic PDEs. (English summary) **2000m:37180**
Dai, Zheng De (*with* Guo, Bo Ling) Long time behavior of nonlinear strain waves in elastic waveguides. (English summary) **2000m:37181**
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Derks, Gianne (*with* Ratiu, Tudor S.) Attracting curves on families of stationary solutions in two-dimensional Navier-Stokes and reduced magnetohydrodynamics. (English summary) **2000i:37140**
Dlotko, Tomasz *see* **Carvalho, Alexandre N. et al., 2000i:37139**
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Guo, Bo Ling (*with* Lin, Guo Guang) Trajectory and attractor convergence for the monopolar fluid to those of the Navier-Stokes equations. (English summary) **2000h:37131**
— *see also* **Dai, Zheng De, 2000m:37181**
Gusakov, I. V. (*with* Danilin, A. V.) On closeness of attractors of the spectral model for a barotropic vortex equation and some of its difference approximations. (English summary) **2000i:37141**
He, Shu Hong Dynamical behavior of a class of nonlinear evolution equations. (English and Chinese summaries) **2000g:37136**
Hines, Gwendolen *see* **Carvalho, Alexandre N., 2000m:37179**
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Ion, Anca (*with* Georgescu, Adelina) On the existence and on the fractal and Hausdorff dimensions of some global attractor. **2000i:37142**
Ito, Akio (*with* Yamazaki, Noriaki; Kenmochi, Nobuyuki) Attractors of nonlinear evolution systems generated by time-dependent subdifferentials in Hilbert spaces. (English summary) **2000j:37112**
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Kenmochi, Nobuyuki *see* **Ito, Akio et al., 2000c:37121** *and* **2000j:37112**
Kostin, I. N. (*with* Pilyugin, S. Yu.) Uniform exponential stability of the attractors of perturbed evolution equations. (Russian) **2000m:37182**
Langa, José A. (*with* Robinson, James Cooper) Study of the asymptotic behavior of PDEs based on the finite-dimensional dynamics of their attractors. (Spanish) **2000b:37091**
Li, De Sheng[2] (*with* Zhang, Xiao Xian) Strongly positively invariant attractors for periodic processes. **2000j:37113**
Lin, Guo Guang *see* **Guo, Bo Ling, 2000h:37131**
Liu, Zeng Rong *see* **Wang, Guan Xiang, 2000j:37114**
Mel'nik, V. S. *see* **Valero, José, 2000e:37135**
Miranville, Alain Exponential attractors for a class of evolution equations by a decomposition method. (English and French summaries) **2000a:37080**
— Exponential attractors for a class of evolution equations by a decomposition method. II. The non-autonomous case. (English and French summaries) **2000d:37099**
Naito, Koichiro Fractal dimensions and ε-syncronicity of multidimensional quasi periodic systems. (English summary) **2000m:37183**
Pilyugin, S. Yu. *see* **Kostin, I. N., 2000m:37182**
Ratiu, Tudor S. *see* **Derks, Gianne, 2000i:37140**
Robinson, James Cooper Global attractors: topology and finite-dimensional dynamics. (English summary) **2000k:37123**
— *see also* **Langa, José A., 2000b:37091**
Schneider, Guido Some characterizations of the Taylor-Couette attractor. (English summary) **2000i:37143**
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— *see also* **Balibrea Gallego, Francisco, 2000k:37122**
Wang, Guan Xiang (*with* Liu, Zeng Rong) On radii of absorbing sets for Kuramoto-Sivashinsky equation. (Chinese. English and Chinese summaries) **2000j:37114**
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Aliev, A. B. (*with* Khanmamedov, Ag. Kh.) On the existence of a minimal global attractor for the nonlinear wave equation with antidissipation in the domain and with dissipation on a part of the boundary. (Russian. Russian summary) **2000a:35160**
Arrieta, José M. (*with* Carvalho, Alexandre N.; Rodríguez-Bernal, Aníbal) Perturbation of the diffusion and upper semicontinuity of attractors. (English summary) **2000k:35030**
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37L40 Invariant measures

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37L45 Hyperbolicity; Lyapunov functions

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37L50 Noncompact semigroups; dispersive equations; perturbations of Hamiltonian systems

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37L55 Infinite-dimensional random dynamical systems; stochastic equations [see also 35R60, 60H10, 60H15]

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37L60 Lattice dynamics [see also 37K60]

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37L65 Special approximation methods (nonlinear Galerkin, etc.)

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37L99 None of the above, but in this section

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37Mxx Approximation methods and numerical treatment of dynamical systems [see also 65Pxx]

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37M05 Simulation

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37M10 Time series analysis

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37M15 Symplectic integrators

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Billings, S. A. (*with* Coca, D.) Discrete wavelet models for identification and qualitative analysis of chaotic systems. (English summary) **2000i:37146**
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37M20 Computational methods for bifurcation problems

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Bifurcation Theory & its Numerical Analysis ★ Bifurcation theory & its numerical analysis. **2000f:37003**
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37M25 Computational methods for ergodic theory (approximation of invariant measures, computation of Lyapunov exponents, entropy)

Chen, Yu Shu *see* **Ma, Jun Hai et al., 2000j:37119**
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37Nxx Applications

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37N05 Dynamical systems in classical and celestial mechanics [See mainly 70Fxx, 70Hxx, 70Kxx]

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37N15 Dynamical systems in solid mechanics [See mainly 74Hxx]

Sidorets, V. N. *see* **Vladimirov, V. A. et al., 2000h:37139**
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37N20 Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics)

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39A13 Difference equations, scaling (q-differences) [see also 33Dxx]

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Liu, Zhi Guo An identity for q-differential operators and its applications. (Chinese. English and Chinese summaries) **2000h:39016**
Volkov, A. Yu. q-combinatorics and quantum integrability. (English summary) **2000h:39017**
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Davis, John M. (*with* Henderson, Johnny; Reid, Denise Taunton) Right focal eigenvalue problems on a measure chain. (English summary) **2000f:39016**
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Han, Guo-Niu (*with* Zeng, Jiang) q-polynômes de Gandhi et statistique de Denert. (English summary) [Gandhi q-polynomials and Denert statistics] **2000i:05015**
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Hinterding, R. *see* **Cerchiai, B. L. et al., 2000k:81138**
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van Moerbeke, P. *see* **Adler, Mark et al., 2000b:37069**
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Ruijsenaars, S. N. M. A generalized hypergeometric function satisfying four analytic difference equations of Askey-Wilson type. (English summary) **2000k:33040**
Spiridonov, Vyacheslav q-special functions: differential-difference equations, roots of unity, and all that. (English summary) **2000m:33022**
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— *see also* **Tarasov, V. O., 2000b:17021**
Wess, Julius *see* **Cerchiai, B. L. et al., 2000k:81138**
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39A20 Multiplicative and other generalized difference equations, e.g. of Lyness type

Abu-Saris, Raghib M. Global behavior of rational sequences involving piecewise power function. (English summary) **2000m:39044**
DeVault, R. (*with* Galminas, L.; Janowski, E. J.; Ladas, Gerry) On the recursive sequence $x_{n+1} = A/x_n + B/x_{n-1}$.
Fan, Xian Ling *see* **Li, Wan Tong et al., 2000m:39046**
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Khusainov, Denis (*with* Shevelenko, E. E.) Stability of linear-fractional difference systems. (Russian. English and Ukrainian summaries) **2000m:39045**

Ladas, Gerry *see* **DeVault, R. et al.**
Li, Wan Tong (*with* Fan, Xian Ling; Zhong, Cheng Kui) Unbounded positive solutions of higher-order difference equations with singular nonlinear term. (English summary) **2000m:39046**
Li, Xian Yi[2] (*with* Luo, Mao Cai) Periodicity and oscillation for a generalized Lyness equation. (Chinese. English and Chinese summaries) **2000d:39018**
Luo, Mao Cai *see* **Li, Xian Yi[2], 2000d:39018**
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— (*with* Schinas, C. J.) On the difference equation $x_{n+1} = \sum_{i=0}^{k-1}(A_i/x_{n-i}^{p_i}) + (1/x_{n-k}^{p_k})$. (English summary) **2000m:39048**
Schinas, C. J. *see* **Papaschinopoulos, G., 2000k:39015** *and* **2000m:39048**
Shevelenko, E. E. *see* **Khusainov, Denis, 2000m:39045**
Tang, Hengsheng *see* **Ou, Chunhua et al., 2000m:39047**
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39A70 Difference operators [see also 47B39]

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Elster, Clemens Recovering wavefronts from difference measurements in lateral shearing interferometry. (English summary) **2000m:39049**
Fahim, Abdelmajid *see* **Levelt, A. H. M., 2000k:39016**
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Hasegawa, Koji (*with* Ikeda, Takeshi; Kikuchi, Tetsuya) Commuting difference operators arising from the elliptic $C_2^{(1)}$-face model. (Japanese) (*see* **2000g:00071**)
— (*with* Ikeda, Takeshi; Kikuchi, Tetsuya) Generation of elliptic commuting difference operator systems via a commuting lattice model. (Japanese) (*see* **2000k:00027**)
Ikeda, Takeshi *see* **Hasegawa, Koji et al., (2000g:00071)** *and* **(2000k:00027)**
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Vitrichenko, I. E. A critical case of the stability of a second-order quasilinear difference operator. (Russian. English and Ukrainian summaries) **2000m:39050**
Voepel, Tammy Variable transformations for fourth order difference equations. (English summary) **2000m:39051**
Yavors′kiĭ, Yu. M. *see* **Lyantse, V. È., 2000g:39018** *and* **2000g:39019**

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Bordner, Andrew J. (*with* Corrigan, E.; Sasaki, Ryu) Generalised Calogero-Moser models and universal Lax pair operators. (English summary) **2000i:37107**
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van Diejen, Jan Felipe A Sato formula for reflectionless finite difference operators. (English summary) **2000h:37119**
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Felder, Giovanni (*with* Varchenko, A. N.) Elliptic quantum groups and Ruijsenaars models. (English summary) **2000d:82015**
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Laczkovich, Miklós Operators commuting with translations, and systems of difference equations. (English summary) **2000b:47082**
Marcellán, Francisco (*with* Salto, L.) Discrete semi-classical orthogonal polynomials. (English summary) **2000e:33010**
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Nishino, Akinori (*with* Ujino, Hideaki; Wadati, Miki) An algebraic approach to the non-symmetric Macdonald polynomial. (English summary) **2000i:33029**
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— *see also* **Nishino, Akinori et al., 2000i:33029**
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Van Hamme, Lucien On the Mahler coefficients of the logarithmic derivative of the p-adic gamma function. (English summary) **2000m:11120**
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Koepf, Wolfram (*with* Schmersau, Dieter) Representations of orthogonal polynomials. (English summary) **2000d:33005**
Lafortune, Stéphane *see* **Gómez-Ullate Oteiza, D. et al., 2000d:17038**
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39Bxx Functional equations and inequalities [see also 30D05]

(Erdős, Paul[1]) *see* **Losonczi, László, 2000b:39009**
Losonczi, László Paul Erdős on functional equations: contributions and impact. **2000b:39009**

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Erdős, Paul[1] *see* **Losonczi, László, 2000b:39009**

39B05 General

Abramov, Sergei A. (*with* van Hoeij, Mark) Integration of solutions of linear functional equations. (English summary) **2000h:39018**
Aczél, János (*with* Maksa, Gyula; Taylor, Mark Adrian) Equations of generalized bisymmetry and of consistent aggregation: weakly surjective solutions which may be discontinuous at places. **2000a:39020**

Bryukhanov, Yu. A. Dynamics of second-order digital recursive system with saturation nonlinearity. (Russian. English and Russian summaries) **2000a:39021**
Candeal-Haro, Juan Carlos (*with* De Miguel, Juan Ramón; Induráin Eraso, Esteban; Olóriz Urriza, Esteban; Tala, José E.) Functional equations in utility and game theory. (English summary) **2000i:39018**
Covachev, Valéry C. *see* **Risteski, Ice B. et al.**
De Miguel, Juan Ramón *see* **Candeal-Haro, Juan Carlos et al., 2000i:39018**
van Hoeij, Mark *see* **Abramov, Sergei A., 2000h:39018**
Horadam, Alwyn F. *see* **Shannon, Anthony G. et al., 2000c:39020**
Induráin Eraso, Esteban *see* **Candeal-Haro, Juan Carlos et al., 2000i:39018**
Járai, Antal Measurable solutions of functional equations satisfied almost everywhere. (English summary) **2000f:39020**
Jung, Soon-Mo Superstability of homogeneous functional equation. (English summary) **2000a:39022**
— On the stability of the functional equation $f(xy) = f(x)^y$. **2000c:39019**
Loh, R. P. *see* **Shannon, Anthony G. et al., 2000c:39020**
Maksa, Gyula *see* **Aczél, János et al., 2000a:39020**
Matkowski, Janusz (*with* Zhang, Weinian) Method of characteristic for functional equations in polynomial form. (English summary) **2000d:39019**
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Risteski, Ice B. (*with* Trenčevski, Kostadin G.; Covachev, Valéry C.) A simple functional operator. (English summary)
Rubinfeld, Ronitt On the robustness of functional equations. (English summary) **2000i:39019**
Shannon, Anthony G. (*with* Horadam, Alwyn F.; Loh, R. P.) Another functional equation related to the trigonometric functions. (English summary) **2000c:39020**
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Trenčevski, Kostadin G. *see* **Risteski, Ice B. et al.**
Voroniĭ, O. M. Once more on functional equations. (Ukrainian)
Zhang, Weinian *see* **Matkowski, Janusz, 2000d:39019**

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Deeba, Elias (*with* de Korvin, André; Xie, Shishen) Techniques and applications of fuzzy set theory to difference and functional equations and their utilization in modeling diverse systems. (*see* **2000k:93002**)
de Korvin, André *see* **Deeba, Elias et al., (2000k:93002)**
Przeworska-Rolewicz, Danuta True shifts generated by right invertible operators are hypercyclic. (English summary) **2000g:47001**
Xie, Shishen *see* **Deeba, Elias et al., (2000k:93002)**

39B12 Iteration theory, iterative and composite equations [see also 26A18, 30D05, 37–XX]

Baldo, Stéphane (*with* Tricot, Claude) Elliptic norms and the convergence of iterated function systems in the plane. (English summary) **2000f:39021**
Bartlomiejczyk, Lech Solutions with big graph of iterative functional equations of the first order. (English summary) **2000m:39052**
Belitskiĭ, G. (*with* Lyubich, Yu. I.) The real-analytic solutions of the Abel functional equation. (English summary) **2000f:39022**
Briggs, K. M. (*with* Dixon, T. W.; Szekeres, George) Essentially singular solutions of Feigenbaum-type functional equations. (English summary) (*see* **2000c:82002**)
Brillouët-Belluot, N. (*with* Gapaillard, J.) On a simple linear iterative functional equation. **2000f:39023**
Dinh Van Ruy *see* **Nguyen Thanh Long et al., 2000a:39023**
Dixon, T. W. *see* **Briggs, K. M. et al., (2000c:82002)**
Gapaillard, J. *see* **Brillouët-Belluot, N., 2000f:39023**
Grinč, Martin On non-negative measurable solutions of a difference functional equation. (English summary) **2000f:39024**
Heidler, Harald Algebraic composition operators, iteration groups and phantom iterates. (English summary) **2000m:39053**
Hogan, Thomas A. Stability and independence for multivariate refinable distributions. (English summary) **2000j:39018**
Khoi, Nguyen Kim *see* **Nguyen Thanh Long et al., 2000a:39023**
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Moszner, Zenon Les équations de pré-Schröder. (French summary) [Pre-Schröder equations] (*see* **2000j:00031**)
Nguyen Hoi Nghia *see* **Nguyen Thanh Long et al., 2000a:39023**
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Sartabanov, Zh. Solvability of a system of functional-difference equations in the space of multiperiodic functions and its application. (Russian. English, Russian and Kazakh summaries) **2000e:39017**
Sha, Zhen A class of functional equation and fractal interpolation functions. (English summary) **2000f:39025**
Si, Jian-Guo (*with* Zhang, Weinian) On C^2 solutions of a functional equation. (English summary) **2000e:39018**
— (*with* Wang, Xin-Ping) Analytic solutions of a polynomial-like iterative functional equation. (English summary) **2000g:39021**
Sidorov, Yu. V. Even and odd functions and the application of their properties to solving functional equations. (Russian) **2000k:39017**
Smajdor, Andrzej Fractional iterates of Jensen set-valued functions. (English summary) (*see* **2000m:37002**)
Szarek, Tomasz Generic properties of continuous iterated function systems. (English summary) **2000e:39019**
Szekeres, George *see* **Briggs, K. M. et al., (2000c:82002)**
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Arango, Jaime (*with* Gómez, Adriana) Flows and diffeomorphisms. (English summary) **2000e:37011**
Bajger, Mariusz On generalized Cauchy and Pexider functional equations over a field. (English summary) **2000j:39019**
Briggs, W. E. (*with* Briggs, William L.) Anatomy of a circle map. **2000f:37045**
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Donoho, David L. (*with* Yu, Thomas P. Y.) Deslauriers-Dubuc: ten years after. (English summary) **2000c:65007**
Frame, Michael (*with* Lanski, Jennifer) When is a recurrent IFS attractor a standard IFS attractor? (English summary) **2000h:37061**
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39B22 Equations for real functions [see also 26A51, 26B25]

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39B62 Functional inequalities, including subadditivity, convexity, etc. [see also 26A51, 26B25, 26Dxx]

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39B82 Stability, separation, extension, and related topics [see also 46A22]

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39B99 None of the above, but in this section

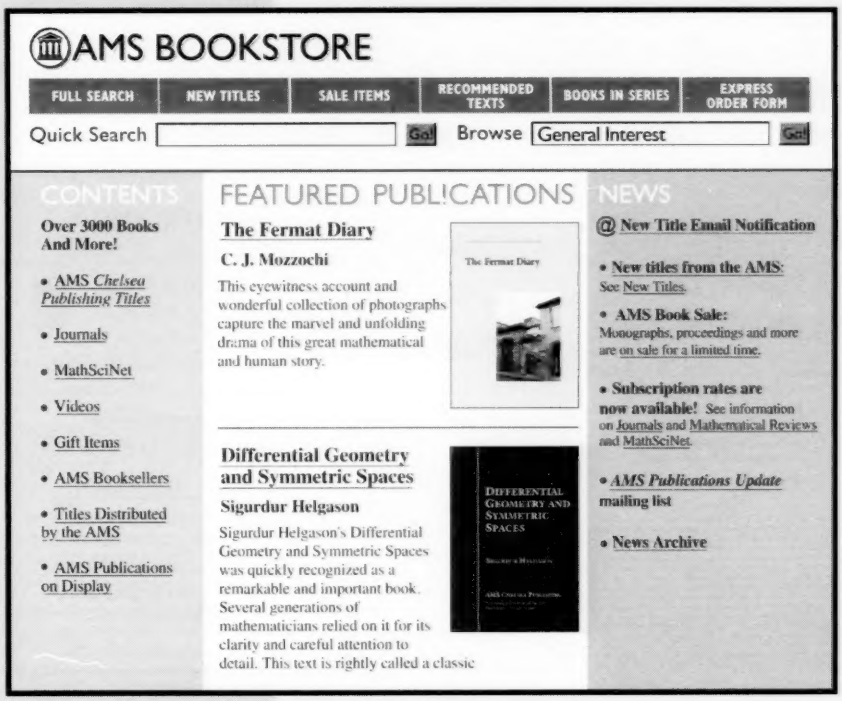
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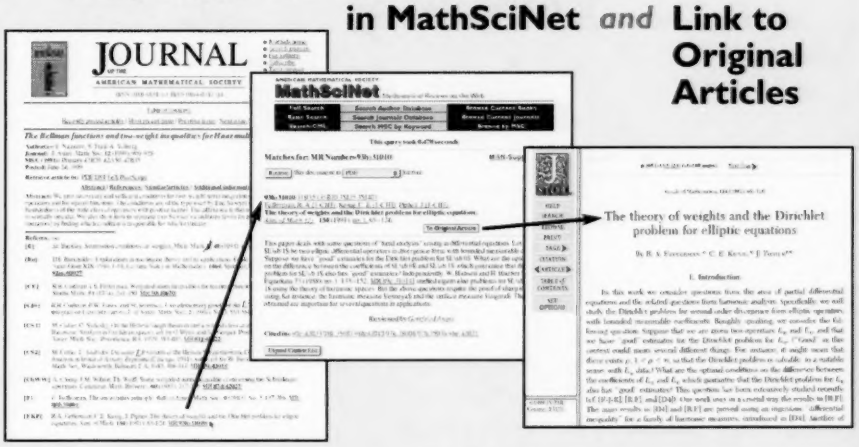
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